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Index*
1952
54th
Year

Gould's

SEED ANNUAL

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U. S. Department of Agriculture



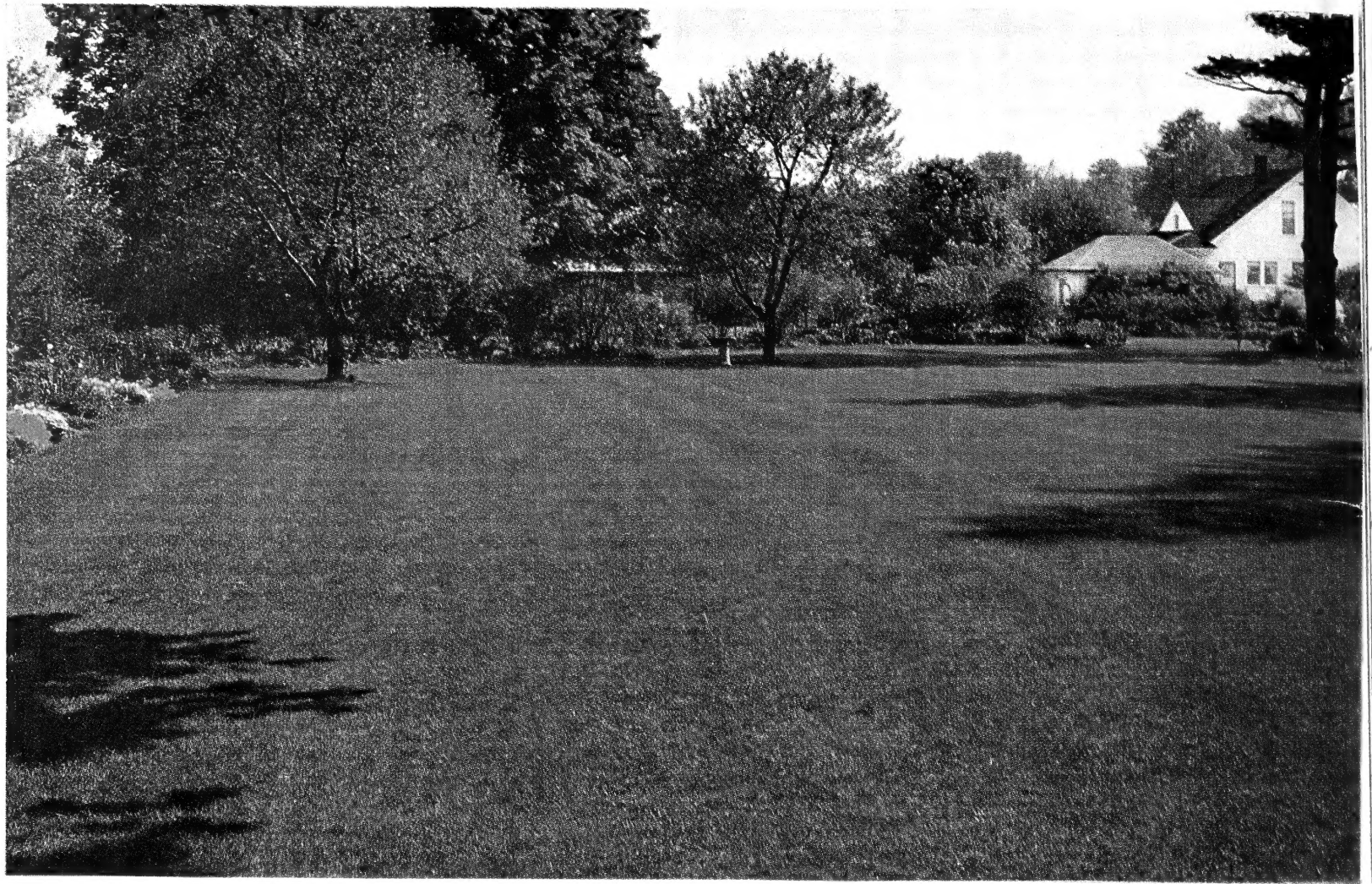
R. L. Gould & Company

Seedsman Since 1898

496-502 JACKSON ST.

Phone
Garfield 5377

ST. PAUL 1, MINN.



A Fine Lawn Creates an Atmosphere of Refinement

Prices Quoted
Are Not Postpaid

LAWN GRASS SEED

Include Postage
With Mail Orders

A fine lawn is the most important feature of the home grounds. A beautiful lawn not only adds to the value of the home but imparts an air of dignity and refinement. Nothing sets off the house so well as a properly made, and well kept lawn.

To maintain a good lawn, the regular feeding of fertilizer is necessary in spite of all the seed you may apply. Otherwise the lawn will gradually starve for want of plant food and take on a lifeless appearance; easily subject to winter-killing. Good seed and regular feeding will do wonders in keeping the lawn fresh and green. See special fertilizer page for lawn fertilizers.

Super Lawn Grass Seed

For over 50 years we have been authorities on mixing good Lawn Seed. The right formula is very important to produce a good, quick and permanent sod. Also, our reputation has been built on high germinating seed in our various mixtures. It is these many years of experience that assures you of super-quality seed, especially adapted to our upper mid-west climate conditions. You will marvel at the sturdy growth you will get from our Reliable Lawn Grass Mixtures. Follow the planting directions in each package.

Gould's Reliable Shady Lawn Grass Seed

Where trees or houses shade the lawn the greater part of the day and keep out the sun, it is a problem to get grass to grow. Growing grass in shaded places seems at times almost hopeless, but this is often due to planting the wrong kind of seed. In Gould's Shady Lawn Grass we have combined a special mixture of those varieties of grass seeds that do well in the shade. Sow at the rate of 1 pound to 150 square feet for new lawn.

1 lb.	\$1.25	3 lbs.	\$3.65	10 lbs.	\$11.50
2 lbs.	2.45	5 lbs.	6.00	25 lbs.	27.50
100 lbs. \$100.00					

Gould's Reliable Lawn Grass Seed

Gould's Reliable Grass Mixture is the result of our many years of experience in the mixing of different grass seeds that will produce a quick, thick, permanent sod of deep-rooting grasses to withstand our northern winters. It is composed of clean, heavy seed of the highest purity and vitality. For new lawns, sow at the rate of 1 lb. to 150 square feet.

1 lb.	\$1.10	3 lbs.	\$3.15	10 lbs.	\$ 9.75
2 lbs.	2.15	5 lbs.	5.00	25 lbs.	23.50
100 lbs. \$90.00					

Gould's Reliable Lawn Grass Seed ^{No} Clover

This mixture is identical to the above Lawn Grass excepting that it contains no clover, but instead added Blue Grass.

1 lb.	\$1.00	3 lbs.	\$2.85	10 lbs.	\$ 9.20
2 lbs.	1.95	5 lbs.	4.65	25 lbs.	22.50
100 lbs. \$87.50					

Gould's Reliable Lawn Grass Seed ^{With} Bent

This is similar to above mixture excepting that it includes 5% Creeping Bent. A fine formula.

1 lb.	\$1.25	5 lbs.	\$ 6.00	25 lbs.	\$27.50
2 lbs.	2.45	10 lbs.	11.50	100 lbs.	100.00

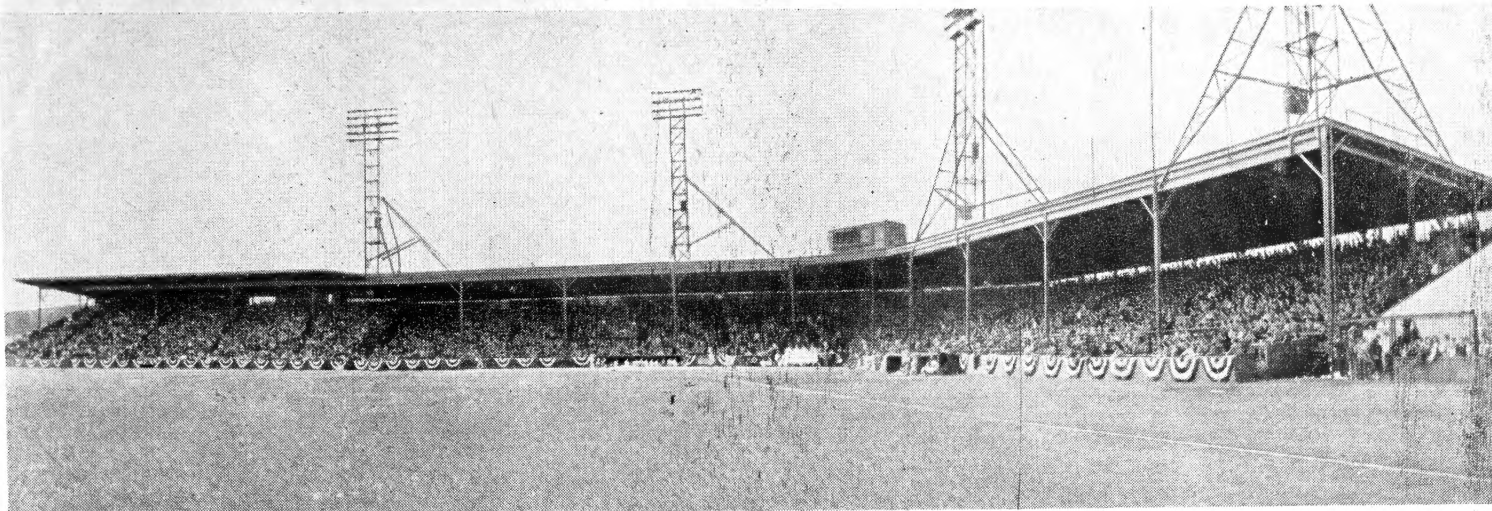
Gould's Reliable Terrace Lawn Seed

A variety of grasses for embankments, terraces and steep hill-sides, that grow long, strong, spreading roots so as to withstand heavy rains from washing out the sod or soil. The deep-rooted grasses also resist drought up to a marked degree.

1 lb.	\$1.00	5 lbs.	\$4.50	25 lbs.	\$21.25
2 lbs.	1.90	10 lbs.	8.75	100 lbs.	80.00

ORDER EARLY

Many items are in short supply. Also you will have the things you want when you are ready to use them. Avoid the Spring rush delay.



Beautiful Lexington Ball Park, St. Paul—Home of the American Association's Saints. Grounds seeded with Gould's Super Lawn Seed Mixtures.

Como Park Lawn Seed

This is a mixture of selected seed for those who want a good low-priced lawn seed. Como Park is not as high grade as Gould's Reliable Lawn Seed, but is a good mixture at the price. It will grow quickly and form a permanent sod. Sow at the rate of 1 lb. to 100 square feet, for new lawn. In 1-lb. pkg. only, 60c.

Home Lawn Seed

A mixture of grasses, similar to Como Park. Seed at the rate of 1 lb. to 100 square feet, for new lawn.

1 lb. \$0.60	5 lbs. \$2.75	25 lbs. \$12.50
2 lbs. 1.15	10 lbs. 5.25	50 lbs. 23.50

Special Lake Shore Lawn Seed

This mixture is especially desirable for lake shores and around summer cottages where it is not always possible to give the best of care in establishing a lawn. Seed at the rate of 1 lb. to 200 square feet of new lawn.

1 lb. \$0.90	5 lbs. \$4.25	25 lbs. \$20.00
2 lbs. 1.75	10 lbs. 8.25	100 lbs. 75.00

White Dutch Clover

This is the best small leaved clover for lawns. Clover adds humus and nitrogen to the soil. Does well on all soils. Especially valuable in lawns that cannot be watered regularly. ¼ lb., 50c; ½ lb., 85c; 1 lb., \$1.50; 2 lbs., \$2.90; 5 lbs., \$7.00; 10 lbs., \$13.00. Postage extra on mail orders.

Kentucky Blue Grass

This hardy perennial grass is one of the very best for our Northern climate and the base for most good lawn seed mixtures. Forms a dense sod but is very slow to germinate. It is advisable to mix red top or rye grass with Blue Grass when sowing, to act as a nurse crop. In established lawns Blue Grass can be sown alone. 1 lb., \$1.25; 2 lbs., \$2.45; 3 lbs., \$3.65; 5 lbs., \$6.00; 10 lbs., \$11.50; 25 lbs., \$27.50; 100 lbs., \$100.00.

Red Top

Makes an excellent sod but is not as permanent as Blue Grass when clipped close. Germinates quickly and for that reason makes an excellent nurse crop to sow with Blue Grass. 1 lb., \$1.25; 2 lbs., \$2.45; 3 lbs., \$3.65; 5 lbs., \$6.00; 10 lbs., \$10.50; 25 lbs., \$24.00; 100 lbs., \$90.00.

Poa Trivialis

A fine bladed perennial grass of the Blue Grass family that thrives in the shade. 1 lb., \$1.75; 5 lbs., \$7.50; 10 lbs., \$12.50.

Rye Grass, Annual

A very quick growing grass that makes a green lawn in a short time. Does not live as long as Blue Grass. Used mostly as a nurse crop. 1 lb., 45c; 5 lbs., \$1.75; 10 lbs., \$3.00; 25 lbs., \$6.00; 100 lbs., \$20.00.

EROSIONET. A strong open mesh fabric, for covering newly seeded areas, especially banks or sloping ground, to prevent washouts. Can easily be removed when new grass becomes established. 45 inches wide, 32c the running yard.

Earth or Peat by the Load.

Sod by the Yard.

Due to the uncertainty of labor costs at the time this catalog is being printed in January, we are unable to quote prices on above. Please phone for price.

1951 Consumer Analysis of the St. Paul Market made by the St. Paul Dispatch-Pioneer Press of Lawn Seed preference.

Brand	Family buying preference
Gould's	30.6%
Nationally known brand.....	11.8
Minneapolis Seed Co. brand.....	10.5
Old Mail Order House brand.....	8.0
Old St. Paul Nursery.....	1.1
Don't know.....	28.7
Miscellaneous	9.3
	<hr/> 100%

Bents

SEASIDE is a consistent surface creeping variety. It is of a rather bright green color, and does not grow very tall because of its trailing habit of growth. It spreads rapidly and forms a matlike sod quickly. Sow at the rate of 3 lbs. to 1,000 square feet. 1 lb., \$1.75; 5 lbs., \$8.00; 10 lbs., \$15.00; 25 lbs., \$36.25.

ASTORIA BENT produces underground creepers several inches deep, and has considerable more upright growth than the Seaside. The grass is somewhat longer and not as wide and of a darker green color. Is better suited to well-drained soils. Seed at the rate of 3 lbs. to 1,000 square feet, for new lawn. 1 lb., \$1.75; 5 lbs., \$8.00; 10 lbs., \$15.00; 25 lbs., \$36.25; postage extra on mail orders.

HIGHLAND BENT. A fine textured, but a little wider blade than Astoria. Color deep green with a bluish cast. Spreads by means of underground runners. Does well in sun or shade. Fairly tolerant to dry conditions. Is cold resistant. Germinates in 7 to 11 days. 1 lb., \$1.50; 5 lbs., \$7.00; 10 lbs., \$13.50; 25 lbs., \$32.50.

Creeping Bent Grass Plugs

For quick growth and spread, Bent Grass plugs establish a green turf much faster than by seeding. The Minnetonka Bent Plugs are perfectly hardy, here in the Northwest. Water well first three weeks.

MINNETONKA PLUGS. 1½-inch diameter; 90 for \$1.50; 270 for \$4.25; 450 for \$6.75; 900 for \$13.00.

Minnetonka Plugging Machine.....\$4.75

Creeping Bent Stolons

For anyone who prefers to plant stolons, a new lawn can be developed in about three months after planting. Bag, enough for 300-500 sq. ft., \$5.00.

Chewings Fescue

Produces a mass of fine blades, spreading to a solid, compact turf. Does well in poor or sandy soils and in the shade. Very drought-resistant. 1 lb., \$1.75; 5 lbs., \$6.75; 10 lbs., \$13.00.

Creeping Red Fescue

Is a fine bladed perennial grass that does well in shade and does better on poor and acid soils than Blue Grass. Spreads by underground runners. Hardy and stands cold and drouth well. Germinates in about 10-14 days. 1 lb., \$1.75; 5 lbs., \$7.75; 10 lbs., \$13.00; 25 lbs., \$30.00

ASPARAGUS SEED

NEW PARCEL POST RATES FROM ST. PAUL

CULTURE. To start an asparagus bed from seed, sow 1 oz. to 50 feet of row early in the spring and transplant roots to permanent bed the following spring.

MARY WASHINGTON★. One of the best of the rust-resistant varieties. A very vigorous grower, producing large succulent stalks of excellent quality. We recommend the Mary Washington as the best variety for the home or market gardener. Shoots color to a dark green with purple shades at tip. Pkt., 10c; oz., 25c; ¼ lb., 75c.

PARADISE. One of the newer varieties, very similar in appearance to the Washington. Is highly rust-resistant and a heavier producer. Grows a larger crop a full year earlier. Pkt., 10c; oz., 45c; ¼ lb., \$1.25.

ASPARAGUS ROOTS LISTED ON PAGE 38.

Lbs.	ZONE				
	1-2	3	4	5	6
2 .....	.20	.21	.24	.28	.33
3 .....	.22	.24	.29	.35	.42
5 .....	.27	.31	.38	.48	.60
7 .....	.32	.38	.48	.62	.79
8 .....	.34	.42	.53	.69	.88
10 .....	.39	.49	.62	.82	1.07
15 .....	.51	.66	.86	1.16	1.53
25 .....	.75	1.01	1.33	1.83	2.45

BEANS

CULTURE. To obtain a continuous supply of beans throughout the season, make plantings every two weeks from about May 10th to July 1st. Beans should be planted in rows 15 to 18 inches apart, thinning in the row to 3 or 4 inches apart. Do not cultivate or pick beans when plants are moist from dew or rain as this causes the spread of rust or Anthracnose, thereby curtailing the production. Plant about 1 to 2 inches deep depending upon the condition of the soil.

DWARF WAX VARIETIES

UNRIVALLED, or EVERBEARING WAX★. 53 TO 55 DAYS. A hardy and prolific mid-season variety. The vines are small and compact, producing a heavy crop of handsome, pale yellow, long, semi-round pods of highest quality. Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 90c; 5 lbs., \$2.00.

DAVIS KIDNEY WAX. 52 TO 55 DAYS. Pods uniform, about 7 inches long. Seed pure white of kidney shape, producing a large, flat, straight pod of fine appearance. Pkt., 15c; ½ lb., 30c; 1 lb., 55c; 2 lbs., \$1.00; 5 lbs., \$2.25.

DWARF GREEN PODDED VARIETIES

TOPCROP★. 48 DAYS. A new bean of high merit for both canning and freezing, mosaic resistant. Pods 6½ inches long to ¾ inch wide, round, light green, straight when young. Pkt., 15c; ½ lb., 35c; 1 lb., 60c; 2 lbs., \$1.10; 5 lbs., \$2.50.

BOUNTIFUL★. 48 DAYS. One of the earliest of the green podded beans. The pods are large, flat and slightly curved, of a light green color and stringless. A heavy bearer. Pkt., 15c; ½ lb., 30c; 1 lb., 55c; 2 lbs., 95c; 5 lbs., \$2.25.

TENDERGREEN★. 54 DAYS. An excellent market gardener bean as well as for the home garden. Plants are strong and vigorous, bearing attractive medium dark green pods 7 inches long. Pods are round, meaty, tender, stringless. Plants of upright growth and heavy producers. Seed brown mottled with fawn. Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., \$2.00.

STRINGLESS REFUGEE, IMPROVED 1000 TO 1★. 70 DAYS. A very productive mosaic resistant, hardy, late variety. Pods are long, semi-round and slender, very much in demand for late market home garden and canning. Pkt., 15c; ½ lb., 35c; 1 lb., 60c; 2 lbs., \$1.10; 5 lbs., \$2.50.

PLENTIFUL★. 48 DAYS. This is a green, flat-podded bush bean, an improved variety of the Bountiful type. Pods are brittle, stringless, straight to curved at tip and 7 inches long under normal conditions. Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 90c; 5 lbs., \$2.00.

GOULD'S RELIABLE BLACK WAX★ (Sure-Crop). 53 TO 55 DAYS. The pods are 6½ inches long, flat, straight and stringless. It is a good yielder and attractive. Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 90c; 5 lbs., \$2.00.

GOULD'S RELIABLE BRITTLE WAX★. 52 TO 55 DAYS. An excellent early, finest quality, round podded variety for the home garden and canning. It is very tender and absolutely stringless. Pkt., 15c; ½ lb., 35c; 1 lb., 60c; 2 lbs., \$1.10; 5 lbs., \$2.50.

IMPROVED GOLDEN WAX. 48 TO 50 DAYS. Bears an abundance of large semi-flat pods slightly curved. Pkt., 15c; ½ lb., 35c; 1 lb., 60c; 2 lbs., \$1.10; 5 lbs., \$2.50.

PENCIL POD BLACK WAX. 52 TO 55 DAYS. One of the best, long, round podded varieties; very early, prolific, stringless and of excellent quality. Pkt., 15c; ½ lb., 30c; 1 lb., 55c; 2 lbs., \$1.00; 5 lbs., \$2.25.

CHEROKEE WAX★. 47 DAYS. A new bean for early market. The plant is large and erect, pods nearly straight, oval in shape, stringless, quality good. Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 90c; 5 lbs., \$2.00.

RIVAL★. 50 DAYS. A new stringless meaty light green bean, 6½ inches long, fairly straight, of fine flavor. Resistant to common bean mosaic. Excellent for canning and freezing. Pkt., 15c; ½ lb., 35c; 1 lb., 60c; 2 lbs., \$1.10; 5 lbs., \$2.50.

WADE'S★. 55 days. 1952 All-America Medal Winner. Very resistant to mosaic and mildew. Very high yielder, pods deep green, 5½ to 6 in. long, round, slender and straight. Outstanding for freezing. Pkt., 15c; ½ lb., 40c; 1 lb., 70c; 2 lbs., \$1.30.

STREAMLINER★. 55 DAYS. Beans are 7 inches long, ½ to ¾ inch wide, straight and semi-flat of excellent quality and stringless. Pkt., 15c; ½ lb., 35c; 1 lb., 60c; 2 lbs., \$1.10; 5 lbs., \$2.50.

STRINGLESS GREEN POD★. 53 DAYS. The finest green bean for home garden use. Has green pods, which are perfectly round, straight, tender, brittle and entirely stringless. Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 90c; 5 lbs., \$2.00.

GIANT STRINGLESS GREEN POD★. 55 DAYS. An excellent variety to follow Stringless Green Pod, being later and larger, withstands heat and is a heavy producer. A good bean for canning. Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 90c; 5 lbs., \$2.00.

LOGAN★. 52 DAYS. Of the Tender-green type, highly resistant to common mosaic, powdery mildew and blight. Pods dark green, stringless, 6 to 6½ inches long. Shape round, slightly curved. Very prolific. Pkt., 15c; ½ lb., 35c; 1 lb., 60c; 2 lbs., \$1.10; 5 lbs., \$2.50.

POLE BEANS

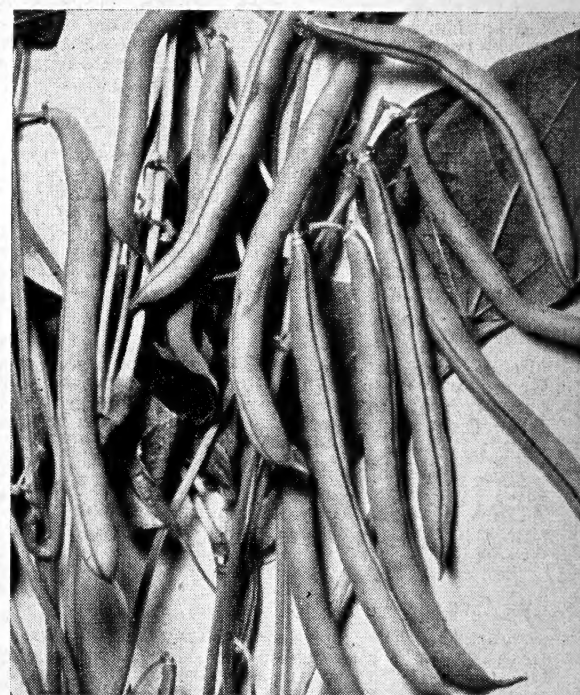
CULTURE. Pole varieties must not be planted until the weather is settled and the ground warm. Set the poles about two to three feet apart, and in each hill plant six to eight beans, thinning when well started to the four strongest. A packet plants 15 hills; 1 lb., 100 hills.

KENTUCKY WONDER or OLD HOMESTEAD★. 65 DAYS. The pods are green and almost round, often measuring 8 to 10 inches long. They are nearly stringless, very tender and bear all summer. Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 90c; 5 lbs., \$2.00.

KENTUCKY WONDER WAX★. 68 DAYS. Similar to the green-podded Kentucky Wonder, but pods are broader and light yellow. Pkt., 15c; ½ lb., 35c; 1 lb., 60c; 2 lbs., \$1.10.

SCARLET RUNNER. 65 DAYS. A bean that is edible as well as ornamental. It is a fine climber, quick growing. Pkt., 15c; ½ lb., 40c; 1 lb., 60c.

The varieties marked with an italic *f* are best for freezing.



Rival

CONTENDER★. 46 DAYS. A new green bean, early, stringless, oval shaped. Fine for freezing. Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 90c; 5 lbs., \$2.00.

STRINGLESS BLACK VALENTINE. 49 DAYS. Pods are long, nearly round, straight and of good quality. Dark green pods are about 6 inches long. Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 90c; 5 lbs., \$2.00.

Beans are postpaid only in packets. In larger amounts add postage at the Parcel Post rates given on page 2, on mail orders.

LIMA BEANS

CULTURE. Limas should be planted a little later than the other running beans, in the most favorable location possible, as they are very late in maturing. Always plant with the eye down. The Bush Lima is more easily grown than the tall, and is earlier and more economical of space. The Pole Limas yield heavier.

BURPEE'S IMPROVED BUSH LIMA★f. 75 DAYS. Bushes grow 18 to 24 inches high, two to three feet in diameter. The pods contain 4 or 5 large, pale green beans. Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 90c; 5 lbs., \$2.00.

FORDHOOK NO. 242★f. 72 DAYS. It is of similar type to the standard Fordhook, but both early and total yields are heavier. Pkt., 15c; ½ lb., 35c; 1 lb., 60c; 2 lbs., \$1.10; 5 lbs., \$2.50.

HENDERSON'S BUSHf. 65 DAYS. It is known as "Baby Lima" and also as "Butter Bean." Plants are of medium size, dark green, bearing pods about 3 inches long, containing 3 to 4 small flat beans with an attractive greenish tint and delicious flavor. Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 90c; 5 lbs., \$2.00.

TRIUMPHf. 70 DAYS. A new, thicker green bean that is easy to shell. Of fine quality and flavor and a good freezer. Pkt., 15c; ½ lb., 35c; 1 lb., 60c; 2 lbs., \$1.10.

KING OF THE GARDEN POLE LIMA★. 88 DAYS. The vines are very vigorous and prolific. Pods are of large size filled with 4 or 5 large pale green beans of very fine quality. A popular market garden variety. Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 90c; 5 lbs., \$2.00.

BROAD WINDSOR. 74 DAYS. A green shell bean, long podded type. Pod not edible. Large, erect plants. Pods of glossy green, 5 inches long, 1¼ inches broad, 5 to 7 seeded, smooth. Green beans broad and flat, used similar to limas. Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c.

BANSEI EDIBLE SOY BEANS

Differ from the field varieties in that they are palatable for human consumption—really delicious. You can cook up the early tender pods like string beans. **BANSEI.** Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., \$2.00.

FIELD BEANS

CULTURE. Beans thrive on most all soils, but better results are gained by the liberal use of fertilizer or planting in light, rich, well-drained loam. Beans are extremely sensitive to frost and moisture.

RED KIDNEY (Dark). 95 DAYS. Vine grows about 20 inches long containing 5 to 6 red kidney-shaped beans. Pods 6 to 7 inches long, flat, broad, straight. Fine for baking, chili and soups. ½ lb., 30c; 1 lb., 50c.

BROWN OR SWEDISH. 95 DAYS. This is a fine field bean of a light brownish color and medium size. Very fine for baking. ½ lb., 25c; 1 lb., 40c.

MICHELITE NAVY. 92 DAYS. A highly recommended Navy strain. Has uniform seed size, less loss in hand pick, disease resistant and yields heavy. ½ lb., 25c; 1 lb., 40c; 2 lbs., 70c; 5 lbs., \$1.60.

CHOICE NAVY. 90 DAYS. This is a much improved strain of the old popular white baking bean. It is smaller in size and more round, but is highly recommended on account of its heavy yield and disease-resistant quality. ½ lb., 25c; 1 lb., 40c; 2 lbs., 70c; 5 lbs., \$1.60.

GREAT NORTHERN. 96 DAYS. The seed is large, flat and slightly kidney shaped. It is a fine baker and is sometimes used as a small lima. ½ lb., 25c; 1 lb., 40c; 2 lbs., 70c; 5 lbs., \$1.60.

BROCCOLI

ITALIAN GREEN SPROUTINGf. 70 DAYS. A delicious vegetable, with a distinctive flavor. Cook and serve the same way as asparagus or cauliflower. Forms a large, compact, bluish-green head. After this is cut, the plant produces numerous tender side shoots, each bearing a small head. Continues to bear from 8 to 10 weeks. Pkt., 10c; oz., 30c; ¼ lb., 75c.

BRUSSELS SPROUTS

LONG ISLAND IMPROVEDf. 90 DAYS. Small heads or sprouts about one to two inches in diameter form on the stocks at each leaf joint. These may be boiled or creamed like cabbage or cauliflower. Pkt., 10c; oz., 50c.



Inoculate beans with Nitragin. Increases yield immensely. Garden size, 15c; postpaid, 17c.

Gould's "Garden For Health" Planting Chart

FOR THE SMALL VEGETABLE GARDEN

NOTE—*Denotes the quantity of seed that should raise sufficient plants to transplant into a row 100 feet long. The seed should be sown in hotbed, later transplant to cold frame, or sow the seed in a prepared seedbed in the open when danger from frost has passed.

Variety	Seed required for 100 ft. row	Plant rows apart	Plants apart in rows	Time of planting in open ground	Matures in about
Asparagus, Seed.....	2 ozs.	1 to 2 ft.	3 to 5 in.	Early spring	3 to 4 years
Asparagus Plants.....	60 plants	30 to 36 in.	18 in.	Early spring	1 to 3 years
Beans, Bush.....	1 lb.	15 to 24 in.	2 to 3 in.	May to July	45 to 70 days
Beans, Pole.....	½ lb.	3 to 4 ft.	3 to 4 ft.	May and June	65 to 90 days
Beets.....	2 ozs.	12 to 16 in.	3 to 4 in.	April to Aug.	55 to 70 days
*Brussels Sprouts.....	1 pkt.	24 to 30 in.	16 to 24 in.	May and June	90 to 110 days
*Cabbage, Early.....	1 pkt.	24 to 30 in.	12 to 18 in.	April and May	65 to 80 days
*Cabbage, Late.....	1 pkt.	24 to 36 in.	16 to 24 in.	May and June	90 to 110 days
Carrot.....	½ oz.	12 to 15 in.	3 to 4 in.	April to June	70 to 100 days
*Cauliflower.....	1 pkt.	24 to 30 in.	24 to 30 in.	April to June	54 to 70 days
*Celeriac.....	1 pkt.	14 to 24 in.	2½ to 3 in.	May and June	120 days
*Celery.....	1 pkt.	6 in.	4 to 8 in.	May and June	115 to 130 days
Corn, Sweet.....	¼ lb.	30 to 36 in.	15 to 24 in.	May to July	60 to 100 days
Cucumber.....	1 pkt.	4 to 6 ft.	4 to 6 ft.	April to July	60 to 80 days
*Eggplant.....	1 pkt.	24 to 36 in.	24 to 30 in.	April and May	85 to 90 days
Endive.....	½ oz.	18 in.	8 to 12 in.	April to July	90 days
*Kale, or Borecole.....	1 pkt.	18 to 24 in.	18 to 24 in.	August	55 to 60 days
*Kohl Rabi.....	1 pkt.	15 to 24 in.	6 to 8 in.	April and May	60 to 80 days
Leek.....	½ oz.	12 to 16 in.	4 to 8 in.	April and May	120 to 180 days
Lettuce.....	1 pkt.	10 to 15 in.	6 in.	April to Sept.	45 to 85 days
Melon, Musk.....	1 pkt.	6 to 8 ft.	Hills, 6 ft.	April to June	80 to 115 days
Melon, Water.....	1 oz.	8 ft.	Hills, 6 ft.	May and June	70 to 100 days
Mustard.....	1 pkt.	12 in.	3 in.	April and May	60 to 90 days
Okra, or Gumbo.....	2 ozs.	3 to 4 ft.	24 to 30 in.	May and June	50 to 60 days
Onion Seed.....	½ oz.	12 to 18 in.	1½ in.	April and May	102 to 115 days
Onion Sets.....	2 qts.	12 in.	1½ to 2 in.	April to July	30 to 60 days
Paralep.....	1 pkt.	12 to 14 in.	6 in.	Early spring	90 to 120 days
Parsnip.....	½ oz.	18 in.	3 in.	April and May	85 to 95 days
Peas.....	1 lb.	15 to 18 in.	2 in.	April to June	50 to 80 days
*Pepper.....	1 pkt.	24 to 36 in.	15 in.	May and June	55 to 80 days
Potato, Irish.....	½ peck	24 to 36 in.	15 in.	April to June	80 to 140 days
Pumpkin.....	1 pkt.	8 to 10 ft.	Hills, 8 ft.	May to July	100 to 120 days
Radish.....	1 oz.	6 to 12 in.	2 in.	April to Sept.	20 to 70 days
Rhubarb Plants.....	33 plants	3 to 5 ft.	3 ft.	Early spring	1 to 3 years
Rutabaga.....	1 pkt.	18 to 24 in.	6 to 8 in.	May and June	85 to 95 days
Salsify.....	1 oz.	18 to 24 in.	4 in.	Early spring	150 to 180 days
Spinach.....	1 oz.	12 to 18 in.	4 in.	Early spring	30 to 60 days
Spinach, New Zealand.....	1 oz.	24 to 36 in.	12 to 18 in.	Early spring	70 days
Squash, Bush.....	1 pkt.	3 to 4 ft.	Hills, 3 to 4 ft.	April to June	50 to 65 days
Squash, Late.....	1 pkt.	7 ft.	Hills, 7 ft.	April to June	55 to 110 days
Swiss Chard.....	1 oz.	16 in.	12 in.	April to Aug.	60 days
*Tomato.....	1 pkt.	3 to 4 ft.	18 in.	May and June	95 to 130 days
Turnip.....	1 pkt.	18 in.	3 in.	April to July	45 to 70 days
Witloof Chicory, or French Endive.....	½ oz.	12 to 15 in.	3 to 4 in.	April and May	Fall and Winter

BEETS

CULTURE. Any well-prepared light garden soil will produce good beets, although a rich, sandy loam brings the best results. Sow the seed about 1 inch deep in rows 15 to 24 inches apart. When plants are about 6 inches high they should be thinned to 3 or 4 plants to the foot. Those taken out at this time make excellent greens.

CROSBY'S EGYPTIAN★. 55 DAYS. A splendid extra early beet of slightly flattened globe shape. It is sweet and tender, of dark purplish red color. Tops fine for greens. Pkt., 10c; oz., 20c; ¼ lb., 40c; 1 lb., \$1.10.

GREEN TOP BUNCHING★. 58 DAYS. An early, attractive variety for bunching. Tops remain green even late in the fall. The roots are nearly round during early growth, but at maturity are slightly flattened; exceptionally smooth, deep red in color. The interior is practically free from zoning. Pkt., 10c; oz., 20c; ¼ lb., 40c; 1 lb., \$1.10.

DETROIT DARK RED★ (Short Top). 58 DAYS. This well-known variety is very popular among market gardeners and canners as well as being an ideal variety for the home garden. The roots are very dark red in color, uniform in shape and of excellent quality. Pkt., 10c; oz., 20c; ¼ lb., 40c; 1 lb., \$1.15.

EARLY WONDER★ (Dark Strain). 52 DAYS. An extra early beet of special merit. Roots are nearly globe shaped, slightly flattened; skin dark red, flesh deep blood red with very little zoning, and of finest quality. Tops are small and ideal as a bunching beet. Pkt., 10c; oz., 20c; ¼ lb., 35c; 1 lb., \$1.00.

GOULD'S EARLY BUNCHING BEET★. 51 DAYS. An outstanding variety that matures earlier than any other beet. The color is deep dark red all the way through without zoning. Roots are smooth, perfectly globular, of uniform shape and size, with slender tap roots. Tops are medium and just right for bunching. Pkt., 10c; oz., 20c; ¼ lb., 35c; 1 lb., \$1.00.

GOULD'S RELIABLE RED BEET★. 60 DAYS. Is especially selected for its uniformity in size, shape and color, being a very dark red. We recommend it either for market or home garden. Pkt., 10c; oz., 20c; ¼ lb., 40c; 1 lb., \$1.15.

MARKET GARDENERS

Special quantity price list of vegetable seeds to commercial growers, sent on request.

MANGEL BEETS (For Stock Feeding)

CULTURE. Sow six pounds to the acre in rows three feet apart, and thin to nine inches in the row. Seed should not be sown until the ground is warm and the weather fully settled. Deeper planting will be required on sand lands or when the soil is dry. Sow one inch deep.

IMP. MAMMOTH LONG RED. 110 DAYS. The roots are extra large, often 20 to 24 inches in length, weighing from 14 to 20 lbs. Roots are uniformly straight and well formed. The flesh is white tinged with rose. Pkt., 10c; oz., 15c; ¼ lb., 30c; ½ lb., 55c; 1 lb., 85c.

GIANT FEEDING HALF SUGAR (White). 90 DAYS. A heavy yielder, but is not fit for sugar production. Yields nearly as heavy as do other mangels, but supplies a food of very much higher nutritive value. A most excellent feed for stock and poultry. Pkt., 10c; 1 oz., 15c; ¼ lb., 30c; ½ lb., 55c; 1 lb., 85c.

GOULD'S RELIABLE SLUDSTRUP BARRES. 110 DAYS. It is a reddish yellow color, is very hardy and grows well above ground. Flesh white with faint yellow tinge. A heavy yielder. Pkt., 10c; 1 oz., 15c; ¼ lb., 30c; ½ lb., 55c; 1 lb., 85c.

IMPROVED GOLDEN TANKARD. 100 DAYS. A popular, productive mangel adapted to shallow land, although doing well on every soil. Tankard shaped, golden skin, flesh yellow, mottled white and very sweet. Pkt., 10c; 1 oz., 15c; ¼ lb., 30c; ½ lb., 55c; 1 lb., 85c.

SUGAR BEETS. GOULD'S RELIABLE (U. S. Strain). 90 DAYS. We consider this to be one of the very best sugar beets for sugar production. Is rich in sugar content, also valuable for stock feeding—rich in vitamins. Pkt., 10c; oz., 15c; ¼ lb., 30c; ½ lb., 55c; 1 lb., 85c.

CELTUCE

It is a distinct species of lettuce, but is different from ordinary lettuce in its growth and uses. The young leaves may be eaten as a salad or cooked as "greens." The center stalk, after outer skin is removed, may be eaten raw or cooked like celery or asparagus. Celtuce taste slightly suggests that of celery, but different and milder. Pkt., 10c.

CHICORY

Used as a winter salad. May be used as a Cos Lettuce, and is delicious when served with salad dressing. The plants form long parsnip-shaped roots that are lifted in the fall, trimmed of leaves, and stored in soil in a cool place until wanted for forcing. WITLOOF, 150 DAYS. Pkt., 10c; oz., 45c; ¼ lb., \$1.40.

CARDOON

A perennial with greyish-green cut foliage belonging to the artichoke family. Grown for its fleshy almost spineless leaf stalks. Pkt., 15c; oz., 60c.

CABBAGE

Cabbage is one of the best vegetable sources of Vitamin C—also rich in Vitamins B and G. Green leaves are ten times as rich in Vitamin A as white bleached leaves. Help to keep your digestion, glands, nerves and organs in tone. As a tonic, food, and medicine, it is one of Nature's best.

YELLOW RESISTANT VARIETIES LISTED ON PAGE 5.

CULTURE FOR EARLY CABBAGE. Seed of the early varieties should be sown ¼ of an inch deep in a greenhouse, hotbed or in boxes in the house, about 6 weeks before the plants are needed for planting out. One-fourth pound of seed produces enough plants for one acre. If, when the second leaves appear, the plants can be transplanted, spacing them 3 inches apart, better and more hardy plants will be obtained.

As soon as the soil can be worked in the spring the plants should be removed to the open field and set in rows 2 feet apart each way.

CULTURE FOR LATE CABBAGE. The seed may be sown in rows one foot apart or broadcast in the garden, about the middle of May, and the plants set in the field in June.

MATURITY FIGURES. After the name of most vegetable varieties you will find figures representing the approximate number of days required to mature the plants, from the time of planting the seed to the time the vegetables are ready to eat.

EARLY JERSEY WAKEFIELD. 62 TO 65 DAYS. Heads are very solid and conical in shape with very few outside leaves, which permits closer planting. Fine for home or market gardens. Pkt., 10c; oz., 25c; ¼ lb., 60c; 1 lb., \$2.00.

GOLDEN ACRE★. 63 TO 65 DAYS. An early round head variety of the Copenhagen Market type, which heads up ahead of Copenhagen. This excellent variety heads very uniformly, producing a hard head which does not burst easily and which stands shipment well. Pkt., 10c; oz., 30c; ¼ lb., 70c; 1 lb., \$2.25.



Golden Acre

COPENHAGEN MARKET★. 68 DAYS. Heads grow upon a short stem, are solid and large, often weighing from 8 to 12 pounds. Its quality is extra fine and sweet. The leaves are light green, rather small, saucer-shaped and tightly folded. Excellent for early market and early kraut. Pkt., 10c; oz., 30c; ¼ lb., 70c; 1 lb., \$2.25.

HOLLAND★ (Short Stem). 100 TO 105 DAYS. The standard winter cabbage, and most remarkable late variety, for storage or shipping purposes. The head is deeper than it is wide and excellent quality. Pkt., 10c; oz., 40c; ¼ lb., \$1.00; 1 lb., \$3.25.

LATE FLAT DUTCH. 95 TO 105 DAYS. A low growing variety, heads large, bluish-green, round, solid, broad and flat on top. An excellent fall and winter variety, and a good keeper. Pkt., 10c; oz., 25c; ¼ lb., 60c; 1 lb., \$2.00.

SAVOY CHIEFTAIN. 90 TO 95 DAYS. The best of the Savoy or curly leaf type of cabbage. Produces a large solid head upon a short stem. Heads almost round; inside yellow to greenish yellow. It is very sweet and delicious especially after being touched by frost. A good winter keeper. Pkt., 10c; oz., 40c; ¼ lb., 90c; 1 lb., \$2.75.

MAMMOTH RED ROCK. 100 DAYS. Heads are of a deep purplish red color to the very center. A hard heading variety, producing heads 6 to 8 pounds each. Pkt., 10c; oz., 40c; ¼ lb., \$1.00.

DANISH ROUNDHEAD or BALLHEAD★. 100 TO 105 DAYS. Is an improved strain of the Danish Ballhead, being shorter stemmed and heavier. It is less liable to blight and is an excellent keeper. Crisp, sweet, tender and unsurpassed for coleslaw or boiling. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$2.50.

PENN STATE BALLHEAD★. 115 DAYS. A strain of Danish Ballhead, one of the best on the market. Heads are globe shaped slightly flattened on the top. They are very solid, weighing 8 to 9 lbs., and are excellent keepers. This variety has yielded the heaviest tonnage per acre of any Ballhead types. Pkt., 10c; oz., 40c; ¼ lb., \$1.00; 1 lb., \$3.25.

Cabbage plants available in May and June.

CABBAGE—Continued

YELLOWS RESISTANT VARIETIES

WISC. GOLDEN ACRE★. 65 DAYS. A yellows resistant strain of Golden Acre. Early, small round heads about six inches in diameter and average three pounds. Pkt., 10c; oz., 60c; ¼ lb., \$1.60; 1 lb., \$5.25.

RESISTANT DETROIT★. 65 TO 68 DAYS. A yellows resistant, round variety, very similar to Golden Acre, but larger leaves and plant has creamy white interior. Pkt., 10c; oz., 45c; ¼ lb., \$1.25; 1 lb., \$3.75.

RACINE MARKET★. 68 DAYS. Round solid heads of fine quality, similar in shape to Copenhagen Market. Pkt., 10c; oz., 50c; ¼ lb., \$1.40; 1 lb., \$4.25.

MARION MARKET★. 75 TO 80 DAYS. It is a selection from Copenhagen Market, is very resistant to cabbage yellows; round head and of high quality; tender and crisp fleshed, excellent for kraut. Pkt., 10c; oz., 35c; ¼ lb., 90c; 1 lb., \$2.25.

WISCONSIN ALL SEASONS★. 90 TO 95 DAYS. A yellows resistant strain of All Seasons. This is a short stem drum-head type of cabbage with a reputation for heading uniformly and heavy yielding. Pkt., 10c; oz., 45c; ¼ lb., \$1.25; 1 lb., \$3.75.

BUGNER★. 100 DAYS. A large, late yellows resistant strain of the Ballhead type; semi-round and very hard. Heads weigh 8 to 10 pounds; are heavy yielders and good keepers, well adapted for kraut, late market or storage. Pkt., 10c; oz., 45c; ¼ lb., \$1.25; 1 lb., \$3.75.

RED HOLLANDER★. 100 DAYS. The only yellows resistant strain of red cabbage. This strain is of good color, hard, ball-shaped head and a heavy yielder. Good for mid-season or late crop. Pkt., 10c; oz., 70c; ¼ lb., \$2.00.

WISCONSIN HOLLANDER NO. 8★. 100 TO 110 DAYS. A very fine strain of yellows resistant cabbage, a selection from Danish Ballhead, but forms a larger head with rather tall stem. A heavy yielder. Head tends to flatten at maturity. Pkt., 10c; oz., 50c; ¼ lb., \$1.40; 1 lb., \$4.25.

CHINESE or CELERY CABBAGE

Is a delicious salad plant. It thrives best during the cooler part of the growing season, consequently is generally planted as a fall crop, usually during July. Do not plant too early. Seed should be sown where crop is to mature and the plants thinned to stand about 15 inches apart in the row.

IMPROVED CHIHILI. 75 TO 80 DAYS. This is the very finest of the Chinese Cabbage. The heads are long and slender, weighing from 2 to 5 pounds each. The outer leaves dark green, inner white, tender, and sweet. Pkt., 10c; oz., 25c; ¼ lb., 70c; 1 lb., \$1.50.

CELERIAC

CULTURE. Celeriac seed may be treated the same as celery until outdoor planting. Plant in rows 14 inches apart, 3 or 4 inches apart in the row.

LARGE SMOOTH TURNIP ROOTED. 120 DAYS. Is fine for flavoring soups, stews, or roots may be cooked up like parsnips. Has a celery flavor. Pkt., 10c; oz., 75c; ¼ lb., \$2.15.

CHIVES

Are hardy perennial plants of the onion type. The tops are used for flavoring. Quicker results are obtained by setting out plants than by seeding as seedlings will not do much the first year, while the sets or plants will multiply very rapidly. Pkt., 15c; oz., \$1.25.

COLLARDS

A tall loose-leaved plant that does not form heads, but leaves similar to cabbage or kale. It is used as greens for the table. Sow seed ½ inch deep, thickly. Transplant when 4 inches high. Thin to 2 to 3 feet apart in the row.

GEORGIA or SOUTHERN. 80 DAYS. Grows about 2 to 3 feet tall, producing large light green leaves. Light frost improves the crop. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50.

CRESS

CULTURE. Sow seed thickly in shallow drills 12 inches apart in the spring, and for a succession every two weeks. One oz. of seed required for 200 feet of drill.

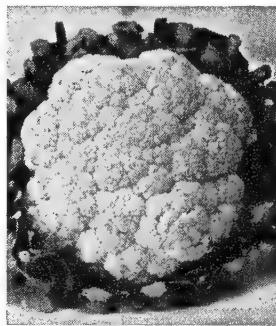
FINE CURLED (Pepper Grass). 40 TO 50 DAYS. Quick growing; leaves finely cut like parsley; growth dwarf and compact; crisp and pungent. Cut the greens before they get too tall. Splendid for garnishing. Pkt., 10c; oz., 20c; ¼ lb., 60c.

WATER CRESS. 55 DAYS. Sow the seed in cool, moist soil in the early spring or if a shallow slow running stream or ditch is near, the seed may be sown within the same near the bank. When sown in a location of this kind it grows luxuriantly for years. Highly esteemed as a salad. Pkt., 15c; oz., \$1.25.

CAULIFLOWER

CULTURE. For early use, the seed should be sown indoors either in a greenhouse, hotbed or in the house about six weeks before setting out. Sow the seed ½ to ¾ of an inch deep. When plants are one or two inches high they can be transplanted to about 3 inches apart, thereby developing into stronger plants. As soon as the soil can be worked and pulverized, the plants may be set out in the open field 2 to 2½ feet each way.

MATURITY FIGURES. After the name of most vegetable varieties you will find figures representing the approximate number of days required to mature the plants, from the time of planting the seed to the time the vegetables are ready to eat.



*Ball O'Snow
Cauliflower*

BALL O'SNOW★. 58 DAYS. A more vigorous type of the Snowball variety, producing larger, pure white heads of great depth, weight and unexcelled white color. This new super strain matures early. Try some of this remarkable Cauliflower this year. Pkt., 15c; ¼ oz., 40c; ½ oz., 60c; 1 oz., \$1.00.

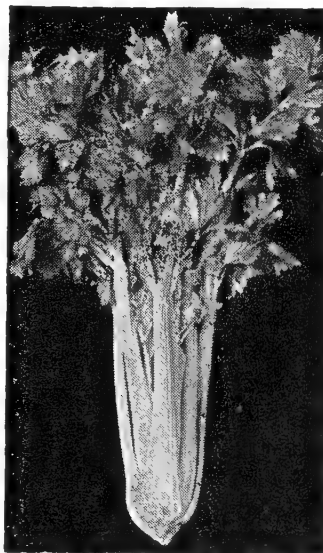
SNOWBALL★. 56 DAYS. The most popular variety for early and general crop. Produces nice snow-white heads 6 to 8 inches in diameter, of extra fine flavor. Is considered a standard by the market gardener, also very desirable for the home garden. Pkt., 15c; ¼ oz., 40c; ½ oz., 60c; 1 oz., \$1.00.

SNOWDRIFT★. 58 DAYS. One of the best varieties of Cauliflower for the Market Gardener. It is early, large and makes a beautiful solid white head of excellent quality. Matures with great evenness. Pkt., 15c; ¼ oz., 40c; ½ oz., 60c; 1 oz., \$1.00.

SUPER SNOWBALL★. 57 DAYS. One of the best varieties for general market crop. It is early, a sure cropper and very attractive. Heads are compact, medium large, pure white. Pkt., 15c; ¼ oz., 45c; ½ oz., 75c; 1 oz., \$1.25.

The vegetables best suited for market are indicated by a star (★) after the name of the variety.

CELERY



*Gould's Reliable Self
Blanching Celery*

CULTURE. For early crop, seed should be sown indoors in February or March. The surface of seed bed should be covered with sand to hold moisture without becoming crusted. When seedlings are big enough to handle they should be transplanted to develop the roots and harden the tops. Plant out in the open when danger of severe frost is past and the soil can be worked.

GOULD'S RELIABLE SELF BLANCHING★. 115 TO 125 DAYS. The seed is American grown of French stock which has been brought to its present high standard of perfection after many years of careful selection. The stalks are tender, crisp and very fine flavored. It is almost double the size of the common strain. Pkt., 10c; oz., 80c; ¼ lb., \$2.75.

GIANT PASCAL★. 135 DAYS. This is a late winter variety of the green type of celery. The plants grow 36 to 40 inches in height; color of stalks and leaves is green. One of the best quality

celery types and has a delicious, sweet and fine nutty flavor. Pkt., 10c; 1 oz., 80c; ¼ lb., \$2.75.

CORNELL NO. 19★. 100 DAYS. An early easy blanching strain of outstanding quality, combining all the best qualities of the Green Pascal Celeries. Stalks are very large, smooth; flesh thick, tender and without strings. It is resistant to "yellows." Pkt., 15c; oz., \$1.25.

SALT LAKE or UTAH★. 125 TO 130 DAYS. Salt Lake grows to a good height and produces stalks that are crisp and tender with a delicious flavor. This celery will bleach much quicker than any other green variety. It is also very desirable for late storing. Pkt., 10c; oz., 80c; ¼ lb., \$2.75.

EAT CELERY FOR HEALTH

Celery is a health builder, and besides Vitamin B, contains valuable mineral salts, which assist your organs to function, aids digestion, glands and nerves.

We are headquarters for cabbage, cauliflower and celery plants during May and June. Prices in quantities quoted on request, or call if convenient.

CARROTS

CULTURE. For the best results the soil should be well worked to a good depth. For early use sow seed in rows 15 inches apart as early in the spring as the soil can be worked, sowing about 2 lbs. of seed per acre and cover the same with $\frac{1}{2}$ inch of soil; but for main crop, sow about corn planting time, using 3 lbs. of seed per acre and the seed should be covered with nearly an inch of soil. One ounce of seed will sow 200 feet of row. Make the rows two feet apart to allow for cultivation. When the plants are 3 inches high thin to 3 inches apart in the row.

CHANTENAY★f (Select Stock). 68 DAYS. The Chantenay Carrot has been the favorite with the home and market gardeners for many years. Our select seed is recommended as best for general use. The flesh is of a beautiful orange color and of fine texture, tender and very sweet. About six inches long. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 60c; 1 lb., \$1.75.

IMP. DANVER'S HALF LONG★. 75 DAYS. Is a well-known stump rooted variety. This root is of a rich dark orange color, smooth and heavy yielding, making it very desirable for both marketing and stock feeding. Roots will grow to 7 or 7 $\frac{1}{2}$ inches in length. This is an excellent bushel carrot. Grows a little longer and larger than Chantenay. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 60c; 1 lb., \$1.75.

CORELESS (Scarlet). 65 DAYS. This variety of exceptional quality is recommended for its earliness, sweet mild flavor and uniformity in shape. The roots are very smooth, average about 5 to 6 inches in length. The flesh is an attractive rich orange red color, sweet, tender, devoid of stringiness. A good keeper. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 60c; 1 lb., \$1.75.

HALF LONG SCARLET NANTES★f. 65 DAYS. Almost coreless, brittle, and fine grained with mild sweet flavor. Roots are of reddish orange color, and 6 to 7 inches long when mature. It is one of the finest carrots grown for market or the home gardener. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 60c; 1 lb., \$1.75.

OXHEART or GUERANDE. 72 DAYS. Earlier than the Danver's but only 2 $\frac{1}{2}$ to 3 inches long, easily lifted from the ground. The flesh is bright orange, fine grained and sweet. Excellent for home use or stock feeding. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 60c; 1 lb., \$1.75.



Red Cored Danvers

of the carrot. It has proven popular with market gardeners and shippers. It is the best carrot for early bunching. The roots are deep orange with small core. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 60c; 1 lb., \$1.75.

IMPERATOR★f (Long Type). 74 DAYS. Very attractive roots 7 to 8 inches long, slightly tapering. Sloping shoulder with slender tops firm enough to bunch well. The color is deep orange which extends to the center with a very small core. Specially adapted to peat land. Sow late for fall crop. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 60c; 1 lb., \$1.75.

IMPROVED LONG ORANGE. 85 DAYS. A heavy yielder for light soils when roots may be easily dug. Roots are orange scarlet, fairly thick and as a rule grow entirely underground, thus having no green shoulder. 10 to 12 inches long when matured. Fine for table or stock. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 60c; 1 lb., \$1.75.

MASTODON or IMPROVED SHORT WHITE. 85 DAYS. Roots half long, 7 to 9 inches in length, smooth, very heavy at shoulder and tapering to point. Color creamy white with light green crown. White flesh, solid, crisp, and of excellent quality for stock feeding. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 60c; 1 lb., \$1.75.

YELLOW BELGIAN (Stock Feeding). 90 TO 100 DAYS. A large yellow stock carrot, by far the largest yellow carrot grown. The roots are exceptionally fine for all kinds of stock feeding, possessing high feeding properties. It is a heavy cropper on all kinds of soil, but especially on rich, sandy loam. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 60c; 1 lb., \$1.75.

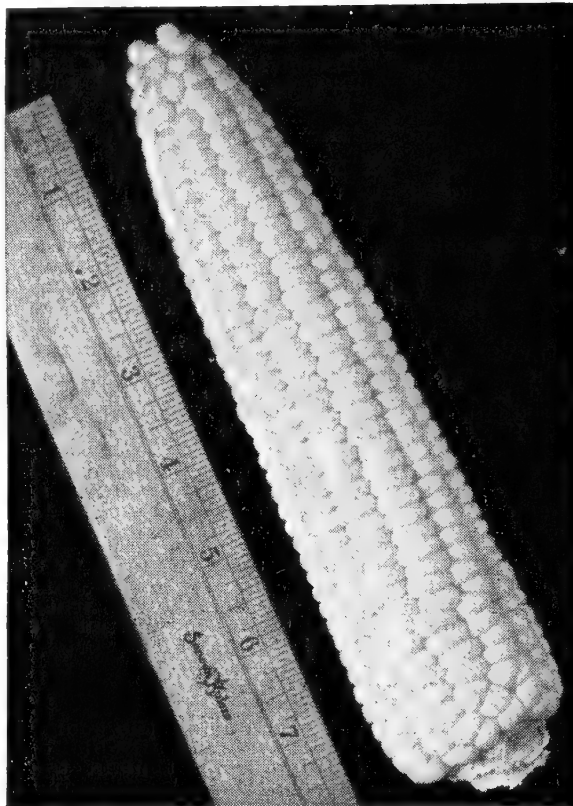
RED CORED DANVERS★. 75 DAYS. An improved strain of Danvers. Root longer, slimmer and more refined than old strain. Flesh deep orange with small indistinct core. Excellent quality, adapted for market and home garden. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 60c; 1 lb., \$1.75.

OREGON CHANTENAY★. 72 DAYS. A special strain selected from Chantenay which produces very smooth roots about one inch longer than regular Chantenay and of more even diameter the whole length

SWEET CORN

CULTURE. Have your soil well prepared but do not plant sweet corn until the ground is warmed up thoroughly. Then the early varieties may be planted in hills 30 inches apart both ways while the later varieties should be planted 3 to 3 $\frac{1}{2}$ feet both ways. Plant 5 or 6 kernels to the hill from 1 to 2 inches deep.

HYBRID SWEET CORN



Golden Rocket

1 lb., 70c; 2 lbs., \$1.30; 5 lbs., \$3.00.

HYBRID M-13f (8 Row). 72 DAYS. This is a true hybrid from inbreds developed out of Extra Early Golden Bantam. Very uniform in maturity. This yellow ear is long for an early corn, averaging about 6 $\frac{1}{2}$ inches. Has a high sugar content and excellent quality. It has been one of the outstanding early 8-row hybrids with market gardeners in past years. Pkt., 15c; $\frac{1}{2}$ lb., 40c; 1 lb., 70c; 2 lbs., \$1.30; 5 lbs., \$3.00.

MARCROSS HYBRID C 6 X 13★. 76 DAYS. This single cross is a good early, wilt-resistant, large eared yellow variety. Ears 10 to 14 rowed, 6 $\frac{1}{2}$ to 7 inches long, kernels medium yellow. Pkt., 15c; $\frac{1}{2}$ lb., 35c; 1 lb., 65c; 2 lbs., \$1.25; 5 lbs., \$2.75.

HYBRID 12 ROW BLENDf. 70 TO 85 DAYS. This is a blend of five different well known named hybrids, primarily for home gardens. There is a spread of ten days to two weeks in picking dates. The stalk height and ear type are similar all the way through. Pkt., 15c; $\frac{1}{2}$ lb., 35c; 1 lb., 60c; 2 lbs., \$1.10; 5 lbs., \$2.50.

IOCHIEF HYBRID★f. 85 DAYS. A new All-America Gold Medal Winner producing ears 9 to 10 inches long, 16 to 18 rowed with exceptionally deep golden yellow grains. Has excellent flavor and tenderness. Adapted for the home gardener, market gardener, canner and freezer. Pkt., 15c; $\frac{1}{2}$ lb., 40c; 1 lb., 70c; 2 lbs., \$1.30; 5 lbs., \$3.00.

GOLDEN CROSS BANTAM HYBRID★f. 85 DAYS. Considerably larger in both plant and ears than Bantam. Ears carry from 10 to 14 rows and are medium yellow color. Ear length 7 $\frac{1}{2}$ to 8 inches. It is resistant to Stewart's disease or bacterial wilt. Best known yellow hybrid and it is widely adapted to market garden, home and canning use. Pkt., 15c; $\frac{1}{2}$ lb., 35c; 1 lb., 65c; 2 lbs., \$1.25; 5 lbs., \$2.75.

WHITE HYBRID EVERGREEN★. 90 DAYS. Ears 7 $\frac{1}{2}$ inches long, 16 to 20 rows, pearly white of good quality. Pkt., 15c; $\frac{1}{2}$ lb., 35c; 1 lb., 60c; 2 lbs., \$1.15; 5 lbs., \$2.25.

OPEN POLLINATED SWEET CORN

GILL'S GOLDEN EARLY MARKET★ (Golden Hummer). 72 DAYS. An early yellow sweet corn that is very popular with the market gardeners. It is larger than Sunshine and several days earlier. It is also a good yielder, 6 to 7 inches long, mostly 12 rows of kernels. Pkt., 15c; $\frac{1}{2}$ lb., 25c; 1 lb., 40c; 2 lbs., 75c; 5 lbs., \$1.75.

GOLDEN SUNSHINE★. 70 TO 76 DAYS. In this corn of rich golden color we find a fine sweet variety maturing a week or ten days earlier than Golden Bantam. Large for an early variety. Pkt., 15c; $\frac{1}{2}$ lb., 25c; 1 lb., 40c; 2 lbs., 75c; 5 lbs., \$1.75.

GOLDEN ROCKET HYBRID★f. 67 DAYS. A 12 to 14-row yellow variety, about 5 $\frac{1}{2}$ feet tall, that is outstanding for either market or home gardeners. The ear is about 7 $\frac{1}{2}$ inches in length and slightly tapered. Here is a new sweet corn you must try. It will prove a pleasant surprise to you. Pkt., 15c; $\frac{1}{2}$ lb., 40c; 1 lb., 70c; 2 lbs., \$1.30; 5 lbs., \$3.00.

GOLDEN FREEZER HYBRID★f. 81 DAYS. Primarily a freezing type, it is just as useful for fresh corn on the cob. Yellow ears are 8 to 8 $\frac{1}{2}$ inches long, 1 $\frac{1}{4}$ inches diameter, 12 to 14 rowed, of excellent quality. Pkt., 15c; $\frac{1}{2}$ lb., 40c; 1 lb., 70c; 2 lbs., \$1.30; 5 lbs., \$3.00.

GOLDEN BANTAM★. Extra Early. 76 DAYS. This is a recombination of 15 inbred strains of Golden Bantam. The quality, color and width of kernel is much superior to ordinary Bantam. "Extra Early" Golden Bantam is adapted especially to home gardens, where early eating corn is desired. It is also profitable to market gardeners. This recombination can be carried along by seed selection from the crop just as with any normal variety. May be planted at intervals of two weeks until July 1st. Pkt., 15c; ½ lb., 25c; 1 lb., 40c; 2 lbs., 75c; 5 lbs., \$1.75.

GOLDEN GIANT★. 90 DAYS. Because of the extreme tenderness, combined with the rich, exquisite sugary flavor, the Golden Giant has become the standard of perfection for sugar corn. Ears 7 to 9 inches long, 12 to 16 rows of deep kernels. Pkt., 15c; ½ lb., 25c; 1 lb., 40c; 2 lbs., 75c; 5 lbs., \$1.75.

BLACK MEXICAN. 92 DAYS. Many consider this sweet corn the sweetest of all for its delicious flavor. The ripe kernels are bluish-black. At eating stage are bluish-white. Pkt., 15c; ½ lb., 25c; 1 lb., 40c; 2 lbs., 75c.

EARLY EVERGREEN. 95 DAYS. Produces large white ears of extra fine quality. We recommend it very highly for both home and market gardens. Pkt., 15c; ½ lb., 25c; 1 lb., 40c; 2 lbs., 75c; 5 lbs., \$1.75.

GOLDEN EVERGREEN★. 95 DAYS. A cross between Golden Bantam and Stowell's Evergreen combining the buttery flavor of the former and large ear of the latter. The ears are 8 to 9 inches long and contain 12 to 14 rows of beautiful yellow kernels. Pkt., 15c; ½ lb., 25c; 1 lb., 40c; 2 lbs., 75c; 5 lbs., \$1.75.

COUNTRY GENTLEMAN. 98 DAYS. A favorite for the home garden. The white kernels are very deep and packed tightly. The flavor is delicious. Pkt., 15c; ½ lb., 25c; 1 lb., 40c; 2 lbs., 75c; 5 lbs., \$1.75.

STOWELL'S EVERGREEN. 98 DAYS. The best known and most popular late variety. Its large ears with long deep white kernels of a rich sugary flavor cannot be surpassed. Pkt., 15c; ½ lb., 25c; 1 lb., 40c; 2 lbs., 75c; 5 lbs., \$1.75.

GOLDEN MIDGET. 65-70 DAYS. Very small ears of unsurpassed flavor that grow on stalks only 2 to 3 feet high. Fine for small garden. Pkt., 15c; ½ lb., 45c; 1 lb., 75c; 2 lbs., \$1.40.

POPCORN

CULTURE. Sow in rows 3 feet apart, 2 to 3 inches deep as soon as danger of frost is over at the rate of 4 to 6 pounds to the acre, or 1 ounce to 40-foot row. Thin plants to 10 to 12 inches in the row. Care in curing determines popping qualities.

GOULD'S SOUTH AMERICAN. This variety has become very popular. The kernels are nearly round and deep orange in color. When popped the kernels are nearly twice the size of other corn and are of a creamy yellow color. Popped kernel has no hard center. The stalks grow 6 to 8 feet high and produce 2 to 3 large ears on each stalk. Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., \$2.25.

SOUTH AMERICAN HYBRID. This new hybrid ripens earlier than regular South American—in about 105 days. It produces corn of finest quality. Pkt., 15c; ½ lb., 50c; 1 lb., 90c; 5 lbs., \$4.00.

MINHYBRID 250. A hybrid hullless white popcorn developed by the University of Minnesota, which is more vigorous and produces better and more uniform popping corn. Pkt., 15c; ½ lb., 50c; 1 lb., 90c; 5 lbs., \$4.00.

JAPANESE WHITE DWARF HULLESS. Very tender and almost hullless. Ears are short and chunky. Although the kernels are very small they pop to large size, being very tender and brittle. Pkt., 15c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., \$2.25.

POPCORN FOR POPPING

We are Northwest headquarters for fine corn for popping, either white or yellow. Prices quoted on request.

CUCUMBER

CULTURE. Plant in hills 6 feet apart each way. 10 to 20 seeds may be planted in each hill, covering a circle 15 inches in diameter. When plants are three or four inches high they may be thinned to 5 or 6 to a hill, allowing for cutworms and beetles destroying one or two. Cultivate frequently until the vines cover the ground. The seed may also be started in berry boxes by placing them in a hotbed. When the weather is suitable—settled and warm—remove the box as plants are placed in the garden. The fruit should be gathered as soon as large enough for use, or else the productiveness of the vines will be permanently injured. One ounce of seed is required for 60 hills; two to three pounds per acre.

EARLY SURECROP HYBRID. 58 DAYS. A 1950 All-America of outstanding performance. The dark green, disease resistant cukes are similar in shape to A & C. Pkt., 25 seeds, 30c; ½ oz., 50c; ½ lb., 75c.

STRAIGHT-8★. 63 DAYS. Outstanding as a shipping cucumber, also for the home garden. 1½ inches in diameter, 8 inches long, and well rounded at both ends. Deep green in color and free from striping. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$2.00.

CUCUMBER—Continued

A & C★. 68 DAYS. One of the best known varieties for market and home gardens. Fruits nearly cylindrical, tapering slightly at ends. Uniform in size and dark green color. 8½ inches long, 2¼ inches in diameter. Holds color very well; one of the leading white spine varieties for slicing. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$2.00.

MARKETER★. 60-65 DAYS. A good early prolific variety. Tapers to straight end. Color dark green and does not show light stripes. A little smaller than A & C. Pkt., 10c; oz., 35c; ¼ lb., 85c; 1 lb., \$2.25.

NIAGARA★. 60-65 DAYS. A new slicing variety that is resistant to cucumber mosaic. Fruit is white spined, deep green, being blunt on blossom end. Varies from 7½ to 10 inches in length. Pkt., 10c; oz., 35c; ¼ lb., \$1.00; 1 lb., \$3.25.

LONGFELLOW★. 72 DAYS. An excellent long, slender dark green variety, equally desirable for greenhouse forcing or outdoor culture. This is an ideal cucumber for the market gardener, growing 12 to 14 inches in length, of vigorous habit. White spined. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$2.00.

DAVIS PERFECT★. 65 DAYS. Retains its dark green color and good qualities long after being picked. It is crisp, solid, of fine flavor and has very few seeds. Will average about 8 to 9 inches in length, is quite slender, tapering slightly at both ends. A splendid cucumber for pickling, as well as for table. Pkt., 10c; oz., 25c; ¼ lb., 65c; 1 lb., \$1.75.

IMPROVED ARLINGTON WHITE SPINE★. 60 DAYS. This improved strain is much superior to the old sort. The skin is dark green, the flesh firm but tender and of delicious flavor. Good for slicing or pickling. Is a heavy yielder and measures 6 to 9 inches in length. Pkt., 10c; oz., 25c; ¼ lb., 50c; 1 lb., \$1.50.

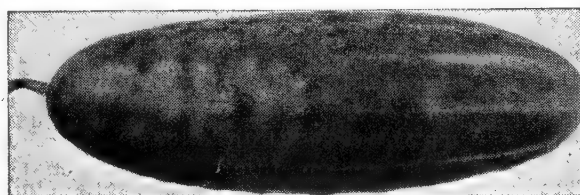
CUBIT★. 60 DAYS. A heavy bearer of white-spined, uniform dark green exterior color and long, blunt-ended, with small seed cavity. A fine cucumber for home gardeners, market gardeners and shipping. Pkt., 10c; oz., 35c; ¼ lb., 85c; 1 lb., \$2.25.

GOULD'S PICKLING. 56 DAYS. A big favorite for those who want a small pickle. Produces a heavy yield of deep green, square ended fruits, broad at stem end and tapering slightly to the tip, of very uniform size. About 5 inches at maturity. Pkt., 10c; oz., 25c; ¼ lb., 65c; 1 lb., \$1.75.

CLIMBING. 60 DAYS. A vigorous grower. A real climber that does best on a pole or trellis. Fruit about 9 inches long, tender and crisp, dark green color. Quite resistant to disease, black spined. Pkt., 10c; oz., 30c; ¼ lb., 75c.

LONG GREEN★. 70 DAYS. Dark green fruit from 7 to 11 inches long. Flesh firm and crisp. Fine for slicing, also for ripe cucumber pickles, the best for yellow pickling. The bulk of the crop matures late and is in much demand for both the home garden and for market gardeners. Black spined. Pkt., 10c; oz., 25c; ¼ lb., 65c; 1 lb., \$1.75.

EARLY FORTUNE★. 65 DAYS. One of the leading early White Spine varieties with a rich dark green color, about nine inches long, slightly tapering at both ends. Has very few seeds. The white flesh is firm and crisp. Fine for table, market or for pickles. A heavy producer, disease resistant. Pkt., 10c; oz., 25c; ¼ lb., 65c; 1 lb., \$1.75.



Early Fortune

BOSTON PICKLING. 58 DAYS. Very productive, and grown mostly for pickles. The fruit is black spined, bright green in color, and smooth. Flesh crisp and tender. Grows 6 to 7 inches long. Pkt., 10c; oz., 25c; ¼ lb., 65c; 1 lb., \$1.75.

CHICAGO or WESTERFIELD PICKLING. 59 DAYS. About 7 inches in length, 2½ inches thick, blunt at both ends, and has large black spines. Is very prolific, and a favorite of many who grow pickles on a large scale. Pkt., 10c; oz., 25c; ¼ lb., 65c; 1 lb., \$1.75.

NATIONAL PICKLING★. 54 DAYS. An early maturing strain of medium size, deep green, very solid, uniform pickles. Stay just as firm after pickling as before. Very productive. Pkt., 10c; oz., 25c; ¼ lb., 65c; 1 lb., \$1.75.

SNOW'S PICKLING. 55 DAYS. A small, early, deep green variety; a favorite among pickle growers. Very productive, maturing uniformly, of excellent quality. Pkt., 10c; oz., 25c; ¼ lb., 65c; 1 lb., \$1.75.

WEST INDIAN GHERKIN. 60 DAYS. Fruit 2 inches long, used exclusively for pickles. Use very young; mature fruit becomes seedy. Pkt., 10c; oz., 30c.

WHITE LEMON. 65 DAYS. It is definitely sweet, free from any bitter taste, has real taste appeal. Heavy bearer and very drought and disease resistant. Pkt., 10c; oz., 30c.

DILL

The young green stems are used for flavoring soups and sauces. The dried branches and seeds are much prized for flavoring pickles, and seeds for flavoring sauerkraut. Pkt., 10c; oz., 15c; ¼ lb., 40c.

EGGPLANT

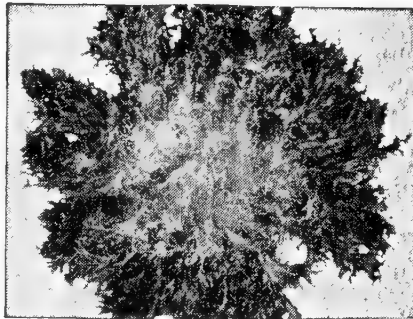
CULTURE. Sow in hotbed in March and April, and when two inches high, transplant to pots or boxes to develop root growth. About June 1st, plant in field or garden 2½ to 3 feet apart each way and cultivate same as cabbage or tomato. Protect young plants from sun as much as possible, also from potato bugs.

NEW YORK SPINELESS★. 85 DAYS. The leading variety for home gardens and market. The plants are stocky and low branching and produce extra large dark purple fruit of perfect shape, usually bearing 4 to 6 large fruits of the finest quality during a season. Pkt., 10c; oz., \$1.00; ¼ lb., \$3.00.

BLACK BEAUTY★. 82 DAYS. Slightly earlier than the New York Spineless but not so large. The skin is of rich dark purple color, and very desirable for market as it holds its color for a long time. Shape nearly round. Pkt., 10c; oz., \$1.00; ¼ lb., \$3.00.

ENDIVE

This plant furnishes attractive and appetizing salad for the fall and winter months, or by repeated sowing a supply may be had nearly all the year round. Useful in flavoring soups, stews, etc. Makes delicious greens if cooked like spinach. Cultivation same as for lettuce.



Green Curled Endive

BROAD LEAVED BATAVIAN★ (Escarolle). 90 to 95 DAYS. One of the best varieties for salads. Leaves are broad, more or less twisted and waved with bright deep green, with nearly white midrib. Inner leaves form a fair head which blanches to a creamy white. Crisp, tender, and of fine flavor. Pkt., 10c; oz., 25c; ¼ lb., 60c; 1 lb., \$1.50.

WHITE CURLED. 100 DAYS. A very beautiful variety with leaves finely curled or mossed, light green in color. Blanching easily. Has a delicious, crisp flavor. Used extensively for decorations as well as for salad. Pkt., 10c; oz., 25c; ¼ lb., 60c; 1 lb., \$1.50.

GREEN CURLED★. 90 to 95 DAYS. A hardy and vigorous grower, with bright deep green leaves finely cut. The leaves should be tied up in the shape of a head for 3 or 4 weeks before using. Is very popular with market and home gardeners. Pkt., 10c; oz., 25c; ¼ lb., 60c; 1 lb., \$1.50.

The vegetables best suited for market are indicated by a star (★) after the name of the variety.

GARLIC

CULTURE. Prepare the ground as for onions; separate the sets and plant them eight inches apart and four to six inches apart in the drill, covering two inches deep. When the leaves turn yellow, pull up bulbs. Dry in the shade.

Garlic belongs to the Onion family. It has flat leaves and the bulb is composed of several parts similar to those of a multiplier onion set. Garlic is highly esteemed for flavoring soups, stews, etc. ¼ lb., 25c; ½ lb., 35c; 1 lb., 60c. (Please add postage to mail orders.)

In Health Building—Greens Supply All These:

Bulk—Helps digestion and prevents constipation. Crisp, raw foods encourage chewing and stimulate flow of saliva.

Calcium—Builds bones, teeth, and blood. Everyone needs it, especially growing children and pregnant mothers.

Iron—Makes rich blood. A lack of this mineral causes anemia, mental dullness, and tiredness.

Vitamin A—Stimulates growth. It also promotes tooth and bone formation; its lack contributes to night blindness.

Vitamin B (thiamin)—Tones up the body. It promotes nerve development, sharpens the appetite, and helps the body make best use of food.

Vitamin C—Helps resist infection and builds good teeth and bones.

Vitamin G (riboflavin)—Promotes growth and keeps eyes and skin healthy. Also valuable in helping body utilize starches.

Vegetable seeds are postpaid only in packets. In larger amounts add postage at the Parcel Post rates given on page 2, on mail orders.

"GARDEN HUCKLEBERRY" OR WONDERBERRY. Not a true Huckleberry, but belongs to the tomato and pepper family. The fruit is deep purple, nearly black, round and slightly smaller than a Concord Grape. The fruit makes delicious pies, preserves and jams. Fruit should be fully ripened to be edible. Plants, 3 feet. Culture same as tomatoes. Pkt., 15c.

HERBS

Most of the varieties of herbs thrive best on sandy soil, while some are stronger and better flavored when grown on soil that is rather poor. In all cases the soil should be carefully prepared and well cultivated as the young plants are for the most part easily choked out by weeds. Sow as early as the ground can be made ready.

ANISE. Grown for its aromatic seeds used in flavoring. Use in salads, mixes well with honey. Pkt., 10c.

BASIL, SWEET. Leaves clove flavored and shoots used for flavoring soups, stews, omelets and as garnish for salads. Pkt., 10c.

BORAGE. A hardy annual with fuzzy foliage and blue, star-shaped flowers which are attractive to honey bees. Leaves give a cucumber flavor to salads and flowers an aromatic flavor to drinks. Pkt., 10c.

CARAWAY. Seed used for flavoring bread, cake, confectionery, etc.; leaves for soups as well as meat. Pkt., 10c.

CATNIP or CATMINT. A hardy perennial. The leaves and young shoots are used for seasoning. An excellent bee pasture. Plants 2 to 3 feet tall. Pkt., 10c.

CORIANDER. Seed used for beverages. Use leaves sparingly in salads. Pkt., 10c.

FENNEL, SWEET. A hardy perennial plant with finely cut foliage. Young shoots are used in salads, soups and fish sauces. Seed used in confectionery and for medicinal purposes. Pkt., 10c.

LAVENDER. Medicinal, also used as a perfume. Pkt., 10c.

MARJORAM, SWEET. Tender young shoots and leaves which are used green, or dried for flavoring soups, dressings, fish, meats, croquettes, fruit salad. Pkt., 10c.

ROSEMARY. Fragrant leaves that are used for flavoring soups and meats. Pkt., 10c.

SAFFRON. Used for medicine and also in dyeing. Pkt., 10c.

SAGE. For seasoning; counteracts effects of fatty food. Cut the leaves and tender shoots just as the plant is coming into flower. Dry quickly in the shade. Pkt., 10c.

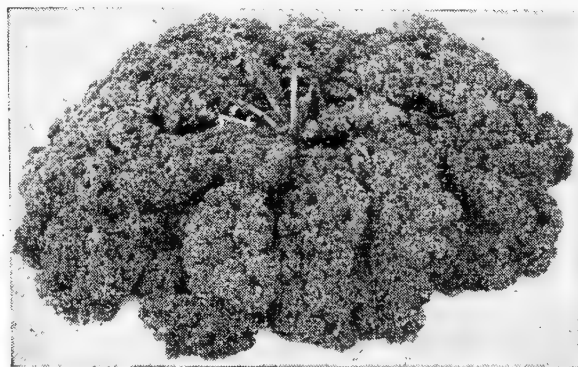
SUMMER SAVORY. Dried leaves, stems and flowers used for flavoring soups and dressings. Pkt., 10c.

THYME. Used for a headache tea, also for flavoring omelets, soups, salads, stuffing, etc. Pkt., 10c.

KALE

CULTURE. Sow in May or June and cultivate the same as cabbage. Makes excellent greens and is improved by light frosts. More hardy than cabbage.

DWARF CURLED★. 55 DAYS. A very finely curled dwarf spreading variety. Foliage is long and bright green. Is even more hardy than cabbage. Produces excellent greens for winter and spring. Pkt., 10c; oz., 25c; ¼ lb., 60c.



TALL CURLED★. 60 DAYS. This variety grows to a height of two to three feet, bearing long plume-like leaves of a light green color. Is rather improved than injured by fairly heavy frosts. Pkt., 10c; oz., 25c; ¼ lb., 65c.

KOHL RABI

CULTURE. Sow in drills 15 inches apart, ½ to ¾ inch deep. When a few inches high thin to 6 to 8 inches apart in the row and cultivate same as beet. Bulbs grow above ground. Roots should be prepared like turnips or cauliflower for cooking. Are much sweeter than turnips.

EARLY WHITE★. 55 to 65 DAYS. Very early, producing small white bulbs. Used especially for forcing. One of the best for table use. Eat when about 2 inches in diameter. Pkt., 10c; oz., 30c; ¼ lb., 90c.

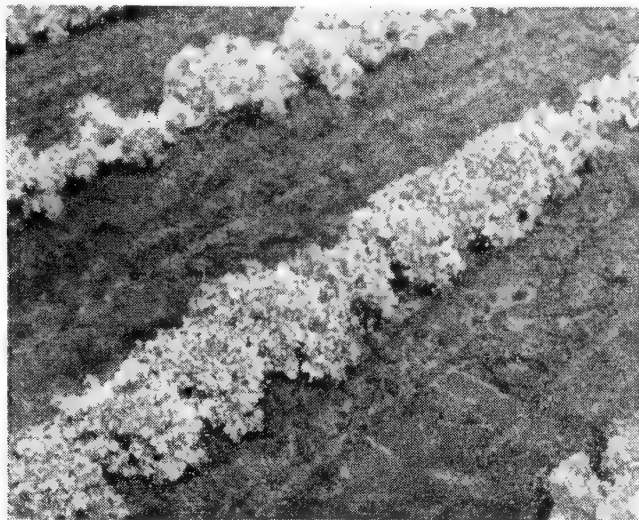
EARLY PURPLE. 60 DAYS. Small plants with purple-stained, dark green leaves. Flattened globe-shaped bulbs, which should be eaten when about 2 inches in diameter. Skin purple. Flesh white, mild, crisp and tender. Pkt., 10c; oz., 30c; ¼ lb., 90c.

LEEK

CULTURE. Sow about May 1st in drills 12 inches apart from ½ to 1 inch deep. When 6 inches high transplant to rows 15 inches apart and 5 inches apart in row, setting the plants in the ground up to their center leaves and drawing this ground up as they grow, causing them to bleach.

AMERICAN FLAG★. 115 DAYS. A strong growing variety, producing large thick stems which have a sweet flavor. Leek is excellent for stews, soups, or creamed. Leek is closely allied to the onion, but milder in flavor. Pkt., 10c; oz., 60c; ¼ lb., \$1.75.

LETTUCE



Salad Bowl Lettuce

CULTURE. Lettuce is the most popular of all salad plants and at the same time is one of the easiest to grow due to its comparative freedom from disease and insects. Seed may be sown in the open from April 20th to August 1st, or planted in the house or in frames any time after March 10th. Rows should be 1½ feet apart, plants four inches apart in row after thinning. One ounce of seed will sow 150 feet of row. 2 to 2½ pounds required per acre.

LOOSE LEAF VARIETIES

GRAND RAPIDS★. 43 TO 45 DAYS. The most popular variety to grow for market. When exposed for sale it retains its handsome fresh appearance longer than any other variety. Leaf is curly and of light green color and crimped at the edge. Disease free. Pkt., 10c; oz., 25c; ¼ lb., 60c; 1 lb., \$1.75.

BLACK SEEDED SIMPSON★. 40 DAYS. Recommended for spring and early summer planting. Color yellowish green, its leaves are thin, tender and sweet. One of the finest for home garden and a favorite market lettuce. Very heat resistant. Pkt., 10c; oz., 25c; ¼ lb., 65c; 1 lb., \$1.75.

SALAD BOWL. 50 DAYS. A new loose-leaf variety, similar in appearance to endive. Leaves are short, closely set and hold their tenderness over a long period. Recommended for home gardens. Pkt., 15c; oz., 60c; ¼ lb., \$1.75.

BRONZE BEAUTY. 40 DAYS. This new lettuce is one of the best for home garden. Leaves are small and long in shape, sharply cut, dark green in color, tinged with bronze. Is very tender and of fine butter-like flavor. Grows well in hot weather. Pkt., 10c; oz., 30c; ¼ lb., 70c.

OAK LEAF. 40 DAYS. Withstands hot weather without turning bitter. Its leaves are small, tender and dark green, testifying to their richness in vitamins. It has the superior butter-type flavor. Pkt., 10c; oz., 35c; ¼ lb., \$1.00.

PRIZEHEAD. 45 DAYS. The name is rather deceiving. Prizehead is a crisp and tender, loose leaf sort with a reddish brown tint on edges of outer leaves. Of quick growth and sweet flavor. One of the best for the home garden. Pkt., 10c; oz., 25c; ¼ lb., 65c; 1 lb., \$1.75.

CHICKEN LETTUCE. (For Poultry Feeding.) So called on account of the abundance of greens it furnishes for poultry feeding or for rabbits. Will come quickly again after cutting. Will send up stalks three to four feet long. Of little value for table use. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$2.00.

ROMAINE OR COS LETTUCE

PARIS WHITE COS. 60 DAYS. A strong grower and very productive, with long, shell shaped, medium green leaves of most excellent quality. A self-folder, but when plant is over half grown it is best to tie it up with string so that the inner leaves may be blanched perfectly white. Head 8 to 9 inches high, long loaf shaped. Esteemed the finest of lettuce in flavor. Chefs prefer it for its tenderness, delicious flavor. Pkt., 10c; oz., 30c; ¼ lb., 75c.

Culture for Head Lettuce

If lettuce plants have been started indoors, transplant as soon as they begin to crowd. Place them six to twelve inches apart in the row in extra rich soil and if the sun has become very hot, it will be best to furnish partial shade. Keep the soil well cultivated around the plants. When the heads start to develop work up the soil around them so as to induce close, compact growth. As soon as the outside leaves are large enough they should be brought together and tied over the top with raffia. Tying makes them deliciously tender and crisp.

HEADING VARIETIES

BIBB. 57 DAYS. The tenderest, most brittle of all lettuce leaves are found in the loose, dark green heads of this variety which chefs of luxury hotels and high priced food shops all over the country have begun to feature. In the garden it grows fast in the spring and fall, maturing its loose heads, as big as a fist, from seed sown in the open ground, with reasonable thinning. In hot weather it runs quickly to seed, so start it early and sow a fall crop in mid-summer. Pkt., 10c; oz., 35c; ¼ lb., \$1.00; 1 lb., \$3.25.

CRISP AS ICE. 74 DAYS. A small dark green head overlaid with dark brown crumpled leaves. Does not get bitter in hot weather. Fine for home garden. Pkt., 10c; oz., 30c; ¼ lb., 80c; 1 lb., \$2.50.

PENNLAKE★. 83 DAYS. A new All-America head lettuce, medium to small in size. Outer leaves dark green, slightly crumpled, well folded, comparatively free from objectionable ribbiness. Interior crisp and firm. Pkt., 10c; oz., 65c; ¼ lb., \$1.75.

GREAT LAKES★. 82 DAYS. It stands heat and sun extremely well and is slow in throwing its seed head. It is also resistant to tip burn. Outstanding for home gardeners and used extensively by truck gardeners on muck soils. White seed. Pkt., 25c; oz., \$1.75; ¼ lb., \$6.00.

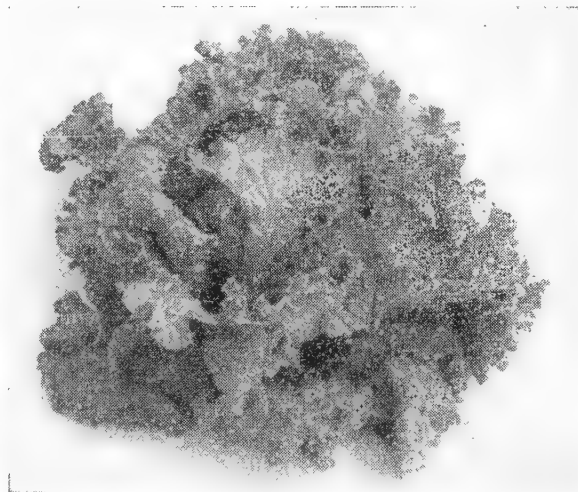
MAY KING★. 63 DAYS. A very early compact heading variety for forcing or early spring planting. The outer leaves are of a light green, tinged with reddish brown. The heart bleaches to a rich, golden yellow, having a fine, rich buttery flavor. Pkt., 10c; oz., 30c; ¼ lb., 85c; 1 lb., \$2.25.

BIG BOSTON★. (White Seeded.) 76 DAYS. A heading variety forming a good sized solid head which is light golden yellow inside, of excellent quality. The outer leaves are bright green and edges are tinged with brown. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$2.00.

ICEBERG. 80 DAYS. Heads are large and firm and well blanched. Color of leaves is light green with faint brown tracing on the border. A quick grower, heads always crisp, very sweet and tender. Pkt., 10c; oz., 30c; ¼ lb., 85c; 1 lb., \$2.40.

HANSON HEAD. 80 DAYS. Color clear light yellowish green. A fine variety for midsummer planting as it stands extremes of weather. Much in demand by both the market and home gardener. The hard cabbage-like head has a sweet and rich flavor, even to the outer leaves. Pkt., 10c; oz., 30c; ¼ lb., 85c; 1 lb., \$2.40.

NEW YORK NO. 12★. 75 DAYS. An early strain which withstands heat and is adapted for summer growing. The color is medium green, the heart blanching beautifully, being crisp, tender and delicious. Pkt., 10c; oz., 45c; ¼ lb., \$1.25; 1 lb., \$3.75.



New York Head Lettuce

IMPERIAL NO. 44★. 82 DAYS. Has very long well-folded leaves and produces hard well-formed heads under favorable conditions. A good header on peat and muck soils. Pkt., 10c; oz., 45c; ¼ lb., \$1.25; 1 lb., \$3.75.

SALAMANDER. 72 DAYS. It forms large solid heads of thick, smooth, light green leaves and tender white heart of fine quality. It withstands hot weather remarkably well. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$2.00.

MUSKMELON

CULTURE. Muskmelons do best on moderately rich, light, warm mellow loam. Do not plant until the ground has warmed thoroughly, as they will start quicker and withstand the attacks of insects so much better. Plant in hills 5 or 6 feet apart both ways. Mix in the hill before planting, one large cupful of commercial fertilizer. Plant 1 inch deep, 10 to 15 seeds to the hill. When plants are 3 inches high, thin to 4 or 5 in a hill.

GOULD'S OSAGE★. 95 DAYS. The fruit is nearly round and slightly ribbed. The skin is dark green and partly netted. The flesh is a deep salmon, thick and sweet. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$2.00.

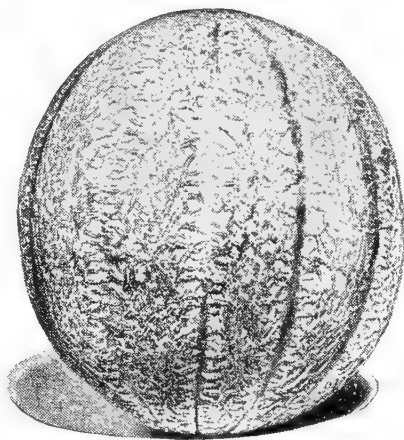
GOLDEN OSAGE★. 95 DAYS. An improved strain of Osage melon combined with the Yellow Meated Japan. The flesh is of a fine golden yellow, very thick meated and the flavor is delicious. The skin is of a light yellowish tint and partly netted. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$2.00.

BENDER'S SURPRISE★. 87 DAYS. A very fine large, round, salmon-fleshed melon of exceptional flavor. The skin is dark green becoming light yellow at maturity. Fairly well netted, attractive and a good shipper. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$2.00.

EARLY SUNRISE★. 80 DAYS. Recommended for roadside markets and fruit and vegetable stands. It is well netted and has a very delicious flavor. Skin is light green, the flesh a beautiful yellow. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$2.00.

IMPROVED HOODOO, or HEARTS OF GOLD★. 90 DAYS. Medium size, round and slightly ribbed. The skin is thickly netted and the flesh a rich, deep orange color of fine quality, with a very small seed cavity. Very solid and firm. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$2.00.

PRIDE OF WISCONSIN★. 90 DAYS. An attractive melon both on the outside and when cut. The rind is very hard, of a pearly gray color, with a faint rib, heavily covered with a distinctive netting. Ripens to a yellowish shade. The salmon colored flesh is unusually thick with sweet and fine flavor. Has many of the desirable characteristics of the Sugar Rock. Adapted to home gardens and short distance shipping. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$2.00.



Pride of Wisconsin

SCHOON'S HARD SHELL★. 85 TO 90 DAYS. An excellent new market melon, five to seven pounds at maturity, is thick, oval shape. Ribbing is prominent with coarse netting. Gray-green color becoming yellow at maturity. Very hard and tough. The thick flesh is deep salmon-orange, solid, well flavored and of excellent quality. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$2.00.

GOLDEN GOPHER★. 85 DAYS. Introduced by the Minn. Agric. Exp. Sta. This melon is full of vigor and vitality, very flavor-full orange flesh and disease resistant. Slightly oval shape, skin netted, grayish-green when immature, becoming a definite yellow when ripe. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$2.00.

CRAIG★. 90 DAYS. A new introduction recommended for roadside market trade or home garden. Skin pearly green with distinct ribbing, very coarse netting. Flesh salmon color, very thick, firm and with delicious sweet flavor. Pkt., 10c; oz., 35c; ¼ lb., 80c; 1 lb., \$2.50.

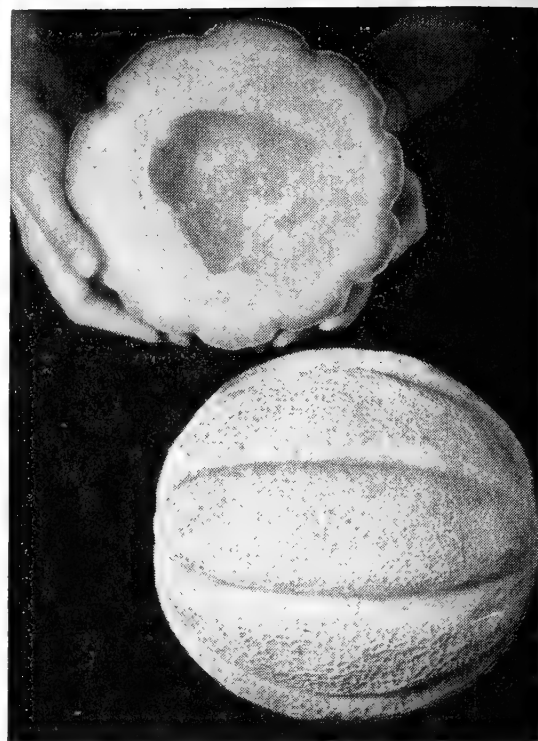
MILWAUKEE MARKET★. 87 DAYS. For home garden, roadside market or early shipping. Fruit of medium size, nearly round, lightly ribbed and fairly netted; skin light green, flesh thick, salmon colored and sweet. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$2.00.

GOLDEN CHAMPLAIN★ (Regular). 80 TO 90 DAYS. It is heavily netted, has a thin but tough rind, very thick flesh and small seed cavity. The flesh is salmon-orange, very juicy and sweet. Fine grained, free from stringiness. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$2.00.

SUGAR or HONEY ROCK★. 85 DAYS. An excellent variety of melon of high quality and very fine flavor. The flesh is a rich salmon, the skin a grayish green color becoming pale yellow at maturity with heavy, coarse netting. The shape is almost round and very solid. Very desirable for home garden and local market. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$2.00.

The vegetables best suited for market are indicated by a star (★) after the name of the variety.

IROQUOIS★. 85 DAYS. A new fusarium wilt - resistant muskmelon. It is of the Bender's Surprise type, being a large melon of nice appearance with a gray - green skin. Fairly well netted, with good thick orange flesh of sweet and excellent quality. Has a small seed cavity. A favorite for roadside market. Pkt., 10c; oz., 30c; ¼ lb., 80c; 1 lb., \$2.25.



Iroquois

HALE'S BEST★. 80 TO 90 DAYS. The melon is oval in shape, about 6½ inches long by 5½ inches in diameter with very heavy netting and distinct ribbing. The flesh is exceptionally thick and a deep salmon in color. It is very sweet and a good keeper. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$2.00.

MUSTARD

A very quick growing foliage plant that is grown principally for greens. Mustard greens have a rich flavor and are fully as healthful and nutritious as spinach.

GIANT SOUTHERN CURLED★. Used largely for salads or greens. Grows very large with yellowish-green beautiful curled leaves. Very tender, of fine pungent flavor. Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.

FORDHOOK FANCY. Not as large as Southern Giant Curled. The leaves are more fringed and crumpled. A very attractive variety and excellent in quality. The growth habit is upright. Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.

SMOOTH LEAF. An excellent variety with very large, light green, fairly smooth leaves, with white mid-rib borne well above the ground. Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.

TENDERGREEN. A mild-flavored mustard-spinach. Foliage may be used for greens when plant is quite young and until it is matured. Cook same as spinach or other greens. Grows fast with long, broad, fairly smooth leaves. Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.

MUSHROOM SPAWN

Propagated under the most advanced scientific pure culture methods. Ready to plant. Brick enough to plant 8 to 10 square feet. With full instructions. Brick, 50c; postpaid, 70c within 3rd zone.

OKRA

Okra is raised for the pods which are used in flavoring soups, stews, etc. The pods are at their best when 1 to 3 inches long.

CULTURE. Sow the seed thickly in rich ground as soon as the ground becomes warm, in drills 3 feet apart and 1 inch deep. Thin out to 10 inches apart. Cultivate freely.

MAMMOTH LONG PODDED. 56 DAYS. Very productive and bear dark green pods from 7 to 8 inches long. Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., 90c.

DWARF GREEN. 50 DAYS. Grows low but stocky and is very prolific. The deep green pods are of fine quality, 5 to 7 inches long. Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., 90c.

CLEMSON SPINELESS. 55 DAYS. This is similar to Dwarf Green, but bush is taller, and pod is longer and darker and spineless, of good quality and very uniform. Plants 4 to 4½ feet tall. Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., 90c.

WHITE VELVET. 60 DAYS. Has long, smooth, white pods which are very tender and of exceptional flavor until almost full grown. Pods 6 to 7 inches long. Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., 90c.

WATERMELON

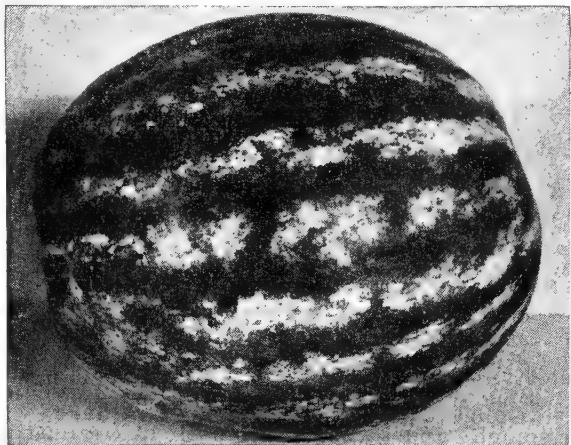
CULTURE. The soil must be rich, light, sandy loam to obtain best results. Plant in hills 8 to 10 feet apart each way, putting 10 to 15 seeds in each hill from ½ to 1 inch deep. When 3 inches high, thin to about 4 plants in each hill. Cultivate often.

NORTHERN SWEET★. 75 DAYS. It is very early and of high quality. The melon is small, weighing from 10 to 12 pounds. The color is medium green with lighter stripes. Flesh is dark red, crisp and exceptionally sweet. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$2.00.

FORDHOOK EARLY★. 85 DAYS. An early watermelon of large size. The rind is tough, making it desirable for shipping. Flesh is bright red, very sweet. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$2.00.

IMPROVED KLECKLEY'S SWEETS★ (No. 6—Wilt R.). 85 DAYS. Oblong, medium early and of large size. Skin is dark bluish-green and flesh is a bright scarlet. One of the best varieties for home garden and local market. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$1.75.

NEW HAMPSHIRE MIDGET. 75 days. This most excellent small melon is recommended for small gardens. Fruits 7 to 8 inches long, flesh rich red of high sugar content. Pkt., 15c; oz., 45c; ¼ lb., \$1.25; 1 lb., \$3.50.



Kansas King

KANSAS KING★. 85 DAYS. This variety is also known as Early Kansas, Red Seeded Wichita, Hutchinson and Red Russian. The size is quite large, averaging about 25 to 30 pounds. The flesh is red, fine grained and of excellent quality, very sweet. The outside appearance is dark green with alternating stripe of lighter green. The rind is medium thick which makes it suitable for trucking or shipping short distances. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$1.75.

IMPROVED KLONDIKE★. 85 DAYS. The flesh is a distinctive shade of deep red. The rind is dark green; the shape is oblong with an average weight of 25 pounds. While more a home garden and local market variety, it is adapted for shipping moderate distances. Pkt., 10c; oz., 35c; ¼ lb., 85c; 1 lb., \$2.25.

DIXIE QUEEN. 85 DAYS. Skin is light green striped dark green. The flesh is bright red, very firm and fine flavored. Is almost round and weighs about 30 pounds. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$2.00.

TOM WATSON★. 90 DAYS. A large oblong melon, the skin of which is dark green, with fine veining of darker green. It weighs 35 to 40 pounds. The rind is thin but tough and flesh a bright, attractive red color, crisp, sweet and delicious. Desirable for both home and market use. A good shipping melon. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$1.75.

GYPSY or GEORGIA RATTLESNAKE. 90 DAYS. It is a splendid keeper and shipper. Is oblong in shape, yellowish-green with stripes of very dark green. Flesh is bright scarlet, crisp and very sweet. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$1.75.

STONE MOUNTAIN★. 90 DAYS. The size is often very large, 35 to 40 pounds, and the flavor and texture of the best. Color is a dark green with finer green veining. The shape is nearly round with blocky ends, and the rind is quite thick. The flesh is bright crimson, exceptionally sweet and crisp, the seeds white, tipped and spotted with black. Pkt., 10c; oz., 30c; ¼ lb., 70c; 1 lb., \$1.60.

BLACK DIAMOND★. 90 TO 95 DAYS. A large dark green round melon of good quality. Weighs 40 to 50 pounds. Recommended for shipping and market or home gardeners. Flesh solid, pink, seed dark brown to black. A vigorous grower. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$2.00.

CALIFORNIA HONEY. 76 DAYS. Here is a new ice box size melon, 10 inches long by 8 inches in diameter; nearly round, skin dark green, medium thick rind, scarlet red flesh of good quality; seeds black. Pkt., 10c; oz., 40c; ¼ lb., 95c; 1 lb., \$2.75.

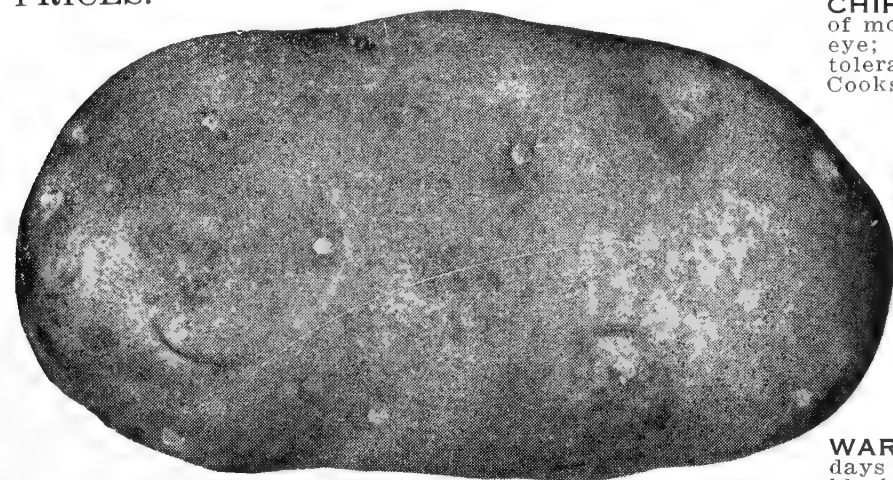
WINTER QUEEN★ (Often called Honey Dew). 100 DAYS. Is without a doubt the sweetest, firmest, most crisp of any watermelon grown. The rind is but ¼ to ½ inch thick. Shape round, not very large, skin almost cream color. Melons harvested in late fall and put in cool cellar may keep up to Christmas time. Pkt., 10c; oz., 35c; ¼ lb., 85c; 1 lb., \$2.25.

CITRON FOR PRESERVES (Red Seed). 95 DAYS. Fruit is round and smooth and very prolific. It is not edible raw, but makes very fine transparent preserves. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$1.75.

SEED POTATOES

Finest Quality from America's Best Seed Producing Areas

We will have this spring, State of Maine Certified Seed Potatoes, famous for highest quality, in the following varieties: Sebago, Katahdin, Sequoia, Chippewa, Green Mountain and Kennebec. In the Red River Valley and North Dakota Certified seed stock, we will have: Red Bliss Triumphs, Red Pontiacs, Cobblers, White Warbas, Red Warbas, Pink Wasecas, Chippewas and Early Ohios. SEE SPECIAL YELLOW LIST FOR PRICES.



Green Mountain

EARLY OHIO. A fine potato for early market, yet is a good winter keeper of excellent quality. Yields well on almost all soils. An old-time favorite. Has smooth, slightly pinkish skin and shallow eyes. Shape oblong with blunt ends

PONTIAC. A mid-season, red potato, flesh white, much like Triumph but larger, developed from a cross of Triumph and Katahdin by the U. S. Dept. of Agric. A vigorous grower and heavy yielder. Does well on most soils.

SEBAGO. This is a new popular variety, blight resistant, a cross of Chippewa and Katahdin. Sebago is a heavy yielder of finest cooking quality. Cooks white. Matures medium late. Fairly resistant to heat and drought. Adapted to almost any soil and weather conditions.

KATAHDIN. A fine main crop variety—an exceptionally good keeper. Of excellent cooking quality. A preferred variety for potato chips. Tubers are oval shaped, smooth and clean, skin and flesh white with very shallow eye. Does especially well on peat soils and muck. Plants are vigorous and disease resistant.

CHIPPEWA. An excellent variety that matures just ahead of most late potatoes. Tubers are smooth with very shallow eye; excellent cookers. Resistant to mild mosaic. Fairly tolerant to heat and drought. Popular for chip making. Cooks white but not very mealy.

IRISH COBBLER. A medium early fine quality variety (about 90 days). Glossy white skin, tuber blocky, often with deep eyes. Not adapted to heavy soils. Does best on muck and lighter soils. Likes cool, moist situations.

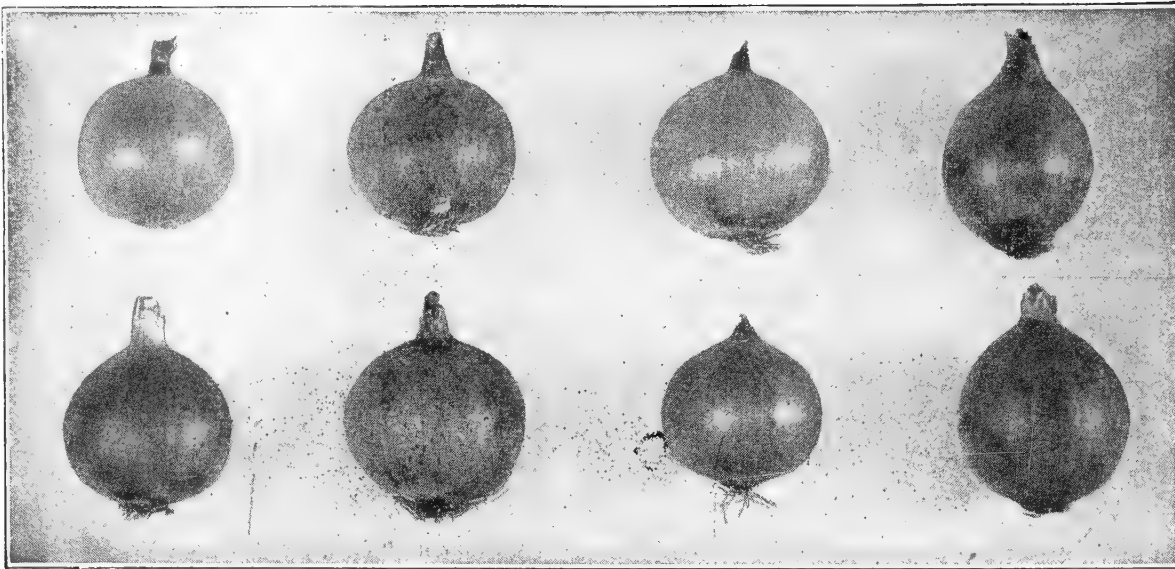
TRIUMPH. Very early (80 days), dark pink skin, tubers blocky with shallow eyes. Fine for early market and home gardens. Excellent cooking quality. Adapted to light soils.

GREEN MOUNTAIN. (90 days). This large oval shaped medium late potato is one of the best for main crop. It is of exceptionally fine table quality and a good yielder. Not well adapted to heavy soils, nor is it tolerant to heat and drought.

Please Refer to Yellow Field List for Seed Potato Prices.

WARBA. An extra early potato, maturing a week to ten days earlier than Early Ohio. Tubers are white, short, round, blocky with pink eyes and uniform in size. A big yielder. Does best on muck soil.

SEQUOIA. A very blight and bug resistant, medium to late potato. Developed by the U. S. Dept. of Agric. from a cross of Green Mountain and Katahdin. A heavy yielder of smooth, oval shaped tubers with shallow eyes. Plant on sandy soil.



Minn. Yellow Globe

Yellow Globe Danvers

Early Yellow Globe

Southport Yellow Globe

Onion Plants

All plants are grown in open field, thereby assuring strong, hardy plants. They are tied in bunches of about 100 plants and packed 60 bunches to the crate. Planting about 3 inches apart in 16-inch rows will require 100,000 plants to the acre. Please write for prices about April 1. We expect to have White Wax, Yellow Bermuda, Sweet Spanish and Prize-taker plants ready about April 10th.

Onion Sets

On account of the uncertainty of the onion set market we are unable to quote prices at the time this book is being printed in January. See yellow list for prices. Prices will be available in March and April.

ONIONS

ONIONS FOR HEALTH

Onions give you energy and are rich in vitamins A and B, which aids digestion and assists your organs, glands and nerves to health. Onions increase bile secretions, aids children to grow and protects from stomach ills.

CULTURE. Sow just as early as possible, that is, when the ground can be worked up nicely. Have your seedbed in perfect shape, for onions are slow in coming up and require close cultivation. It is sometimes advisable to mix a few radish seeds with your onion seed so as to allow for earlier cultivation. One ounce of seed will sow 200 feet in drill $\frac{1}{2}$ inch to 1 inch deep, 4 to 5 pounds of seed to an acre drilled 13 to 14 inches apart for hand cultivation or 20 to 22 inches apart for cultivating with tractor. Cultivate often. Do not allow soil to bake.

All onions and other vegetable varieties best suited for market are indicated by a star (★) after the name of the variety.

YELLOW VARIETIES

SOUTHPORT YELLOW GLOBE★ (Brigham Strain, also called Michigan). 110 DAYS. A selection from Southport Yellow Globe for thick skin and keeping qualities. This variety has done especially well on peat and high lands. The bulbs are deep globe shape, color is dark yellow. The skin is thick and there appears to be an extra layer. A very excellent storage variety. Pkt., 10c and 25c; oz., 45c; $\frac{1}{4}$ lb., \$1.25; 1 lb., \$3.50.

SOUTHPORT YELLOW GLOBE★. 115 DAYS. A very popular strain of Yellow Globe onions. Matures early and is a good keeper. Skin is of rich brownish yellow, the flesh white, crisp and fine grained. Pkt., 10c and 25c; oz., 45c; $\frac{1}{4}$ lb., \$1.25; 1 lb., \$3.50.

YELLOW GLOBE DANVERS★. 110 DAYS. The bulbs are large and globular with very thin necks. The flesh is white and mild and the skin is orange-yellow. Is an enormous yielder, a fine keeper, and excellent for shipping, as well as for home gardens. Pkt., 10c and 25c; oz., 45c; $\frac{1}{4}$ lb., \$1.25; 1 lb., \$3.50.

GOULD'S MINNESOTA YELLOW GLOBE★. 112 DAYS. This variety of Yellow Globe onion, like our Minnesota Red Globe, is a most select strain of Yellow Globe onion. It is perfect in shape and in color, also having all the best keeping qualities obtainable. A remarkable strain. Pkt., 10c and 25c; oz., 45c; $\frac{1}{4}$ lb., \$1.25; 1 lb., \$3.50.

IOWA NO. 44★. 100 DAYS. A combination of Synthetic hybrids developed by Iowa State College. Of medium size, round to somewhat globe shaped, outstanding keeper. Pkt., 15c; oz., 75c; $\frac{1}{4}$ lb., \$2.00.

YELLOW VARIETIES —Continued

GOULD'S EARLY YELLOW GLOBE★. 98 DAYS. A very rapid grower. Will mature 10 to 15 days earlier than the Minnesota or Southport Yellow Globe. Gould's Early Yellow Globe always gets top market prices. Pkt., 10c and 25c; oz., 45c; $\frac{1}{4}$ lb., \$1.25; 1 lb., \$3.50.

GOULD'S PRIZETAKER★. 105 DAYS. The largest onion that can be grown in a northern climate. It is globe-shaped and has a straw-colored skin of a beautiful appearance. A favorite for hotel and restaurant trade. Is very solid, of mild flavor and a good keeper. Pkt., 10c and 25c; oz., 60c; $\frac{1}{4}$ lb., \$1.70; 1 lb., \$5.00.

YELLOW SWEET SPANISH. UTAH STRAIN. 110 DAYS. It is the most popular onion in Southern California and grows to large size. It does not produce the "stiff-necks" usual in the Spanish type. Pkt., 10c and 25c; oz., 60c; $\frac{1}{4}$ lb., \$1.70; 1 lb., \$5.00.

RED VARIETIES

GOULD'S MINNESOTA RED GLOBE★. 110 DAYS. This fine strain of Red Globe onions is the result of many years' selection. For trueness of type, perfection of color and long keeping qualities, it is unsurpassed. The color of Minnesota Red Globe is a deep blood-red, extra dark, while the surface is smooth and glossy. The flesh is white, tinged with light purple, fine grained and full flavor. Pkt., 10c and 25c; oz., 55c; $\frac{1}{4}$ lb., \$1.30; 1 lb., \$4.00.

SOUTHPORT RED GLOBE. 110 DAYS. A standard Red Globe onion of very good quality, and attractive in color. This onion is very uniform both in size and shape. Grows to a diameter of from two and a half to three and a half inches. A good keeper and exceptionally heavy yielder. Pkt., 10c and 25c; oz., 55c; $\frac{1}{4}$ lb., \$1.30; 1 lb., \$4.00.

WHITE VARIETIES

GOULD'S MINNESOTA WHITE GLOBE★. 110 DAYS. Without a doubt the best White Globe onion grown. It is pure white, mild, and a good keeper. Being much milder than the red or yellow varieties, it is much preferred for family use. Our Minnesota White Globe Onion is one of the very finest varieties in existence. Pkt., 10c and 25c; oz., 60c; $\frac{1}{4}$ lb., \$1.50; 1 lb., \$4.75.

SOUTHPORT WHITE GLOBE. 110 DAYS. Is a standard of the White Globe varieties. Flesh is crisp, mild, fine grained and pure white, delicious flavor. Bulbs should be stored in a cool dark place as soon as matured. Pkt., 10c and 25c; oz., 60c; $\frac{1}{4}$ lb., \$1.50; 1 lb., \$4.75.

GOULD'S PICKLING★. 105 DAYS. For early bunching or pickling and also for sets. It is pure white, round, and very firm and mild in flavor. Pkt., 10c and 25c; oz., 60c; $\frac{1}{4}$ lb., \$1.50; 1 lb., \$4.75.

HE-SHI-KO WHITE BUNCHING ONIONS★. This is the best of bunching Onions; perfectly hardy in Minnesota. A vigorous grower making no bulb, but producing fine white necks or stalks which may be trenced without fear of discoloration or rot. You can plant seed as late as August for spring Onions. Pkt., 10c and 25c; oz., 50c; $\frac{1}{4}$ lb., \$1.35; 1 lb., \$3.75.

WHITE BUNCHING★. An extra early round, white variety. It is exceptionally fine for early bunching, table, and for boiling. Matures large snowy white onions. Pkt., 10c and 25c; oz., 60c; $\frac{1}{4}$ lb., \$1.50; 1 lb., \$4.75.

WHITE PORTUGAL OR SILVER SKIN★. 100 DAYS. Of medium size, flat shaped, ripening early and uniformly. Has a fine mild flavor. A splendid onion for pickling and early bunching, also for white bottom sets. A good keeper. Pkt., 10c and 25c; oz., 50c; $\frac{1}{4}$ lb., \$1.35; 1 lb., \$3.75.

PEANUTS

Peanuts do best on a light, sandy soil. The ground should be ploughed deeply and thoroughly harrowed. Seed peanuts should be carefully hulled to prevent breaking the skin on the kernels. Plant in rows $2\frac{1}{2}$ to 3 feet apart and 12 inches in the row. Cover about 2 inches. When matured, pull up and dry in the sun a few days. Vines are a valuable feed for horses, cattle and sheep. **JUMBO.** $\frac{1}{2}$ lb., 40c; 1 lb., 60c; post-paid, 80c.

Seeds are postpaid only in packets. In larger amounts add postage at the Parcel Post rates given on page 2.

PARSLEY

CULTURE. Sow in early spring in drills 14 inches apart, $\frac{1}{2}$ to 1 inch deep. Parsley seed is slow to germinate and requires from 20 to 30 days to show above the ground, therefore it is advisable to sow a few radish or lettuce seeds with the parsley seed as a guide for early cultivation.

DARK MOSS CURLED★. 70 DAYS. The leaves are of an extra dark green color. It is a heavy producer, and on account of the densely curled character of its leaves a quantity can be gathered in a short time. Very fine for garnishing and flavoring. A home and market garden variety. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 55c; 1 lb., \$1.25.

DOUBLE CURLED. 70 DAYS. Fine dwarf crimped leaves. Very similar to the Dark Moss Curled excepting that leaves are finer curled. A home garden favorite and very fine sort. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 55c; 1 lb., \$1.25.

HAMBURG OR TURNIP ROOTED PARSLEY. 90 DAYS. The edible roots of this variety resemble a small, thick parsnip in shape and color. They may be stored for the winter and used for flavoring soups, stews, etc. The flesh is white, a little dry, with the flavor of celeriac. Plain leaves can be used like ordinary parsley. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 55c; 1 lb., \$1.25.

PLAIN LEAVED. 72 DAYS. Widely known as Italian Parsley, are not curled but have an excellent flavor. Not so attractive as curled leaf varieties for garnishing. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 55c; 1 lb., \$1.25.

PEAS

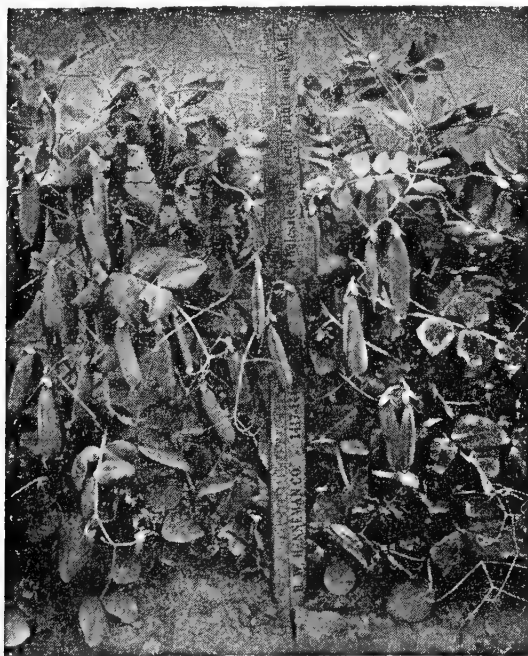
CULTURE FOR GARDEN PEAS. Sow seed 2 inches deep in rich soil very early in the spring and for a succession put in varieties that mature at different periods or if dwarfs only are desired, sow a few rows every 10 days throughout the season. For hand cultivation sow in rows 15 inches apart, but if grown on a large scale it is best to sow in rows from 2 to 3 feet apart and cultivate them with a horse or tractor. One pound of seed will plant 100 ft. of row; 75 to 100 lbs. of seed required to an acre.

The peas best suited for market are indicated by a star (★) after the name of the variety.

EXTRA EARLY DWARF WRINKLED VARIETIES

ALASKA (Smooth Seeded). 56 DAYS. An outstanding strain, 100% wilt resistant, developed at the Sturgeon Bay Station in Wisconsin. Vine 29 inches high, stem thin, very uniform in maturing. Pods $2\frac{1}{2}$ inches, light-green, blunt seed, color medium green. Pkt., 15c; $\frac{1}{2}$ lb., 25c; 1 lb., 40c; 2 lbs., 75c; 5 lbs., \$1.50.

AMERICAN WONDER. 61 DAYS. This variety heads the list of peas in flavor and quality. The vines bear a great abundance of good-sized pods containing 5 to 8 large, exceedingly sweet, tender and well-flavored peas. Require no brush or other support. Grow to a height of about 12 inches. Pkt., 15c; $\frac{1}{2}$ lb., 25c; 1 lb., 40c; 2 lbs., 75c; 5 lbs., \$1.50.



Little Marvel Peas

15c; $\frac{1}{2}$ lb., 25c; 1 lb., 40c; 2 lbs., 75c; 5 lbs., \$1.50.

LITTLE MARVEL★. 62 DAYS. An extra fine dwarf pea of the early wrinkled variety, with vines growing 15 to 20 inches high. Pods are about 3 inches long of a dark green color. Peas are very sweet and tender. Especially suited for home gardens and early market gardening. Pkt., 15c; $\frac{1}{2}$ lb., 25c; 1 lb., 40c; 2 lbs., 75c; 5 lbs., \$1.50.

LITTLE GEM. 65 DAYS. Height 24 to 30 inches. It is a few days later than the American Wonder, but slightly larger and will bear for a longer period than other varieties. The peas are green, wrinkled, of sweet, delicious flavor and excellent quality. Pkt.,

LARGE EARLY WRINKLED PEAS

FERTILIZER FOR PEAS. Use about 300 pounds to the acre of 5-10-5, in drills, to get the best returns from your Pea crop. Fertilizer will improve the quality and increase the crop greatly.

The peas best suited for freezing are indicated by an italic *i* after the name of the variety.

LAXTON'S PROGRESS★. 60 DAYS. One of the best large podded early dwarf varieties. For home gardens and shipping. Vines will average about 18 inches, pods 4 inches. Pods with 8 to 10 delicious peas are dark green. A very heavy bearer. Pkt., 15c; $\frac{1}{2}$ lb., 25c; 1 lb., 40c; 2 lbs., 75c; 5 lbs., \$1.50.

THOMAS LAXTON★. 58 DAYS. Large podded, extra early pea. The pods contain on the average seven or eight large, sweet, wrinkled peas of the very richest flavor. The vines attain a height of from $2\frac{1}{2}$ to 3 feet. In flavor this pea is unsurpassed. A very popular variety for the home and market gardener. Pkt., 15c; $\frac{1}{2}$ lb., 25c; 1 lb., 40c; 2 lbs., 75c; 5 lbs., \$1.50.

FREEZONIAN★. 58 DAYS. Is similar to Thomas Laxton, but is more uniform and outstanding as a freezing variety. Pkt., 15c; $\frac{1}{2}$ lb., 25c; 1 lb., 40c; 2 lbs., 75c; 5 lbs., \$1.50.

WORLD'S RECORD★. 58 DAYS. An improved type of Gradus. 24 to 30 inches high, pods 4 inches long, medium green with 7 to 9 peas in pod. Very prolific. Pkt., 15c; $\frac{1}{2}$ lb., 25c; 1 lb., 40c; 2 lbs., 75c; 5 lbs., \$1.50.

HUNDREDFOLD★. 60 DAYS. This pea resembles the Laxtonian but is a little larger and more prolific. Vines grow to a height of 16 to 18 inches, pods dark green, and containing 8 large dark green peas of excellent quality. A very fine home garden pea and for market garden and shipping. Pkt., 15c; $\frac{1}{2}$ lb., 25c; 1 lb., 40c; 2 lbs., 75c; 5 lbs., \$1.50.

PERFECTION*i* (Dark Seeded). 66 DAYS. Resistant to fusarium wilt, vine 18 to 34 in., pods 3 in. long, with 6 to 8 dark green peas. Fine for freezing. Pkt., 15c; $\frac{1}{2}$ lb., 25c; 1 lb., 40c; 2 lbs., 75c; 5 lbs., \$1.50.

MAIN CROP VARIETIES

TELEPHONE★. 74 DAYS. Another leading pea for home and market gardeners. It comes into bearing fairly early, yields abundant crops of large, fine appearing pods and peas that are sweet and luscious. The vines grow about $4\frac{1}{2}$ to 5 feet in height. The immense pods are straight, and of fine appearance, and contain eight to nine large, wrinkled peas, closely packed, tender, sweet and of fine flavor. Pkt., 15c; $\frac{1}{2}$ lb., 25c; 1 lb., 40c; 2 lbs., 75c; 5 lbs., \$1.50.

GIANT STRIDE★. 75 DAYS. A very popular, large podded, shipping and market garden variety, also a good home garden pea. The pods holding 8 to 10 peas are $5\frac{1}{2}$ to $6\frac{1}{2}$ inches in length, dark green in color, pointed or curved end, and very attractive. The quality is excellent. The vine height is about 26 inches. Pkt., 15c; $\frac{1}{2}$ lb., 25c; 1 lb., 40c; 2 lbs., 75c; 5 lbs., \$1.50.

Peas are postpaid in packets only. In larger amounts add postage at rates shown on page 2.

ALDERMAN★. 74 DAYS. This is a very large podded pea of the "Telephone" group, very robust and vigorous. The pods are well filled with large peas of most excellent flavor. The vines are from $4\frac{1}{2}$ to $5\frac{1}{2}$ feet in height. For home and market gardeners and shipping. Pkt., 15c; $\frac{1}{2}$ lb., 25c; 1 lb., 40c; 2 lbs., 75c; 5 lbs., \$1.50.

EVERBEARING. 76 DAYS. Reaches a height of $2\frac{1}{2}$ to 3 feet. As name indicates this variety continues long in bearing and is very prolific. The peas are very large green wrinkled and of excellent quality. Are tender and of superior flavor. One of the best for late summer and autumn use. Pkt., 15c; $\frac{1}{2}$ lb., 25c; 1 lb., 40c; 2 lbs., 75c; 5 lbs., \$1.50.

DWARF GRAY SUGAR (Edible Pods). 65 DAYS. Vines 24 to 30 in. high with an abundance of medium sized sweet and tender pods, seed gray mottled in appearance. To be prepared for the table in the same manner as snap beans. Pkt., 15c; $\frac{1}{2}$ lb., 25c; 1 lb., 40c; 2 lbs., 75c.

CARTER'S DAISY OR EARLY DWARF TELEPHONE★. 70 DAYS. This pea is always in great demand owing to its large pods and excellent quality. It is very desirable for early market, always obtaining top prices. Vines are very vigorous, reaching about 18 inches, with well-filled pods. Vines require no support. Pkt., 15c; $\frac{1}{2}$ lb., 25c; 1 lb., 40c; 2 lbs., 75c; 5 lbs., \$1.50.

PARSNIPS

CULTURE. Work the soil very deep and pulverize the seed-bed thoroughly. Sow the seed in early spring, $\frac{1}{2}$ to 1 inch deep, in rows 18 inches apart. As soon as the young plants appear, cultivate and hand weed them, and when 3 inches high thin to 4 inches apart in the row. One ounce of seed for 200 feet of row; 3 lbs. seed required for an acre.

HOLLOW CROWN★. 95 DAYS. Better known and more generally grown than any other sort. The roots are smooth, large, tender and sweet and of the best quality. This variety is easily distinguished by the leaves arising from a cavity on the top or crown of the root. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 55c; 1 lb., \$1.25.

ALL AMERICAN or IMPROVED HOLLOW CROWN. 93 DAYS. Not as long as the regular Hollow Crown but is more smooth and uniform in size. Free from fibre with only a small core. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 55c; 1 lb., \$1.25.



Inoculate peas with Nitragin. Greatly improves the vigor of the plants and increases yield immensely. Garden size, 15c, postpaid 17c.

PEPPERS

Peppers are one of best sources of Vitamins A and C, also B

CULTURE. Seed should be planted in hotbed or greenhouse about March 10th to 20th. When plants are 3 inches high they should be transplanted to 2 or 3 inches apart until weather and soil conditions permit for outdoor planting. Then plant in rows 2½ feet apart and 18 inches apart in row. Cultivate same as tomatoes.

NEAPOLITAN. 62 DAYS. A very early and productive large variety. The fruit is oblong and has a light green color gradually changing to golden and finally to a bright red. Very mild and sweet. Pkt., 10c; oz., 85c; ¼ lb., \$2.50.

SUNNYBROOK. PIMENTO TYPE★. 73 DAYS. This is a bright red tomato-shaped pepper with thick, firm flesh. It is very sweet and exceptionally mild. It comes into bearing early and is very productive. Pkt., 10c; oz., 85c; ¼ lb., \$2.50.

RUBY KING★. 70 DAYS. A popular, early, sweet pepper of good size, desirable for home, market garden and shipping. Fruit 6 in. long, by 3½ in. across, tapered. Dark green turning ruby-red when ripe. Pkt., 10c; oz., 80c; ¼ lb., \$2.25.

KING OF THE NORTH★. 65 DAYS. An improved market gardeners' strain. The large peppers are dark green, turning to a rich red when ripe; mild and sweet. This pepper matures very early, is a heavy producer and fine for the home garden. Pkt., 10c; oz., 85c; ¼ lb., \$2.50.

PERFECTION★. 73 DAYS. A fine variety for home and market gardens. Fruits heart shaped, smooth, 3 in. long, deep green becoming deep red. Flesh thick, sweet and of excellent flavor. Pkt., 10c; oz., 85c; ¼ lb., \$2.50.

HUNGARIAN YELLOW (Hot). 65 DAYS. A very hot pepper growing 5 to 7 inches in length tapering to a blunt point. The color is of canary yellow with waxy appearance. Turns red when ripe. A heavy yielder. Pkt., 10c; oz., 85c; ¼ lb., \$2.50.

HUNGARIAN YELLOW (Sweet). 65 DAYS. Same type as the Hot Hungarian excepting that it is sweet. Pkt., 10c; oz., 85c; ¼ lb., \$2.50.

SWEET YELLOW OR BANANA. 60 DAYS. The light yellow sweet peppers are banana shaped, about 8 in. long and 2 in. in diameter, turning red at maturity. Very heavy bearer. Pkt., 10c; oz., 85c; ¼ lb., \$2.50.

RED CHILI★. 82 DAYS. Small, very hot, 2 in. long and ¼ in. across. Both skin and flesh are red. Pkt., 10c; oz., 85c.

LONG RED CAYENNE★. 70 DAYS. Is about ¾ to 1 inch in diameter and 5 to 7 inches long. Although this also is pungent, it is not as sharp as the Small Cayenne. For pickling, either green or ripe. Pkt., 10c; oz., 80c; ¼ lb., \$2.25.



California Wonder Pepper

CALIFORNIA WONDER★. 75 DAYS. A sweet pepper with very thick flesh. Fruit very large, smooth and heavy. A good yielder. It is blocky in shape, square in cross section, 4 inches wide and 4½ inches long. Some will weigh as much as a pound each. Is deep green when small, changing to crimson when ripe. Pkt., 10c; oz., 85c; ¼ lb., \$2.50.

LARGE BELL OR BULL NOSE★. 62 DAYS. This is one of the early, bell-shaped peppers. It is more pungent than the larger and later varieties. Is very desirable for pickling. Pkt., 10c; oz., 80c; ¼ lb., \$2.25.

WORLD BEATER★. 75 DAYS. One of the finest large peppers yet introduced. Exceptionally mild, and can be eaten raw without fear of burning. Color of fruit is green at first, turning to a beautiful shade of scarlet. Flesh thick, and an excellent shipper. Pkt., 10c; oz., 80c; ¼ lb., \$2.25.

PUMPKINS

CULTURE. Pumpkins may be planted with corn by planting the pumpkin seed in every 4th or 5th row of corn one way by every 3rd or 4th row across, dropping 4 seeds in a hill. When raised alone, the hills should be 10 feet apart each way, dropping 6 or 7 seeds in a hill and cultivating both ways. Cultivate with a section of the harrow. One ounce of seed will make 15 hills, and about 2 pounds are needed for an acre.

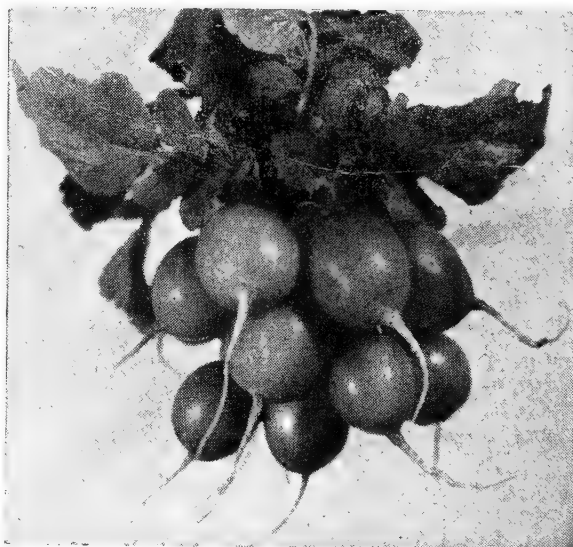
EARLY CHEYENNE (Bush). 80-90 DAYS. Fruits 2½ to 4 inches deep by 6 to 7 inches in diameter; weighs 2½ to 3 lbs., smooth, slightly ribbed. Skin and flesh reddish-orange, rich flavored and fiberless. Of finest quality for pies. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$2.25.

EARLY SUGAR OR PIE★. 115 DAYS. This pumpkin is small, round, slightly ribbed, skin and flesh deep orange. Flesh is very thick, fine grained, sweet and of finest quality. A big yielder and a good keeper. One of the best for pie. Pkt., 10c; oz., 25c; ¼ lb., 60c; 1 lb., \$1.75.

CONNECTICUT FIELD★. 115 DAYS. Largely grown for stock feeding, but is also used for pie and canning. The outside is reddish-orange in color, the inside orange yellow. Is very solid, fine grained and slightly ribbed. Pkt., 10c; oz., 25c; ¼ lb., 60c; 1 lb., \$1.75.

GOULD'S MAMMOTH FIELD. 118 DAYS. One of the largest and best, especially for stock feeding. It is also a good keeper. Often weighs 75 to 100 lbs. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$2.00.

LARGE SWEET CHEESE OR KENTUCKY FIELD. 118 DAYS. Used largely for canning and stock feeding. Shape flattened to round, skin orange-buff, flesh salmon yellow with very little fiber. Pkt., 10c; oz., 20c; ¼ lb., 45c; 1 lb., \$1.25.



Gould's Early Scarlet Globe Short Top Radish

RADISH

CULTURE. Radish should be grown on good rich sandy loam. Avoid seeding in soil where you have had any root crop that became infested with root maggot, if possible. As a preventive of maggots it is well to treat your soil with a good dressing of tobacco dust or crude naphthalene flakes. Apply at intervals of about 10 days. Plant your radish seed one-half inch deep in rows 12 to 14 inches apart as soon as the soil is in condition to work nicely in the spring. When the plants are about 1 inch high, thin enough to avoid crowding. Cultivate often and shallow to retain moisture and destroy weeds.

EARLY ROUND RADISHES

CHERRY BELLE★. 22 DAYS. A New All-America. Round and as red as a berry. Early, has short top forcing, not too desirable for real early planting in spring. Stays solid 10 days longer than any early radish. Pkt., 10c; oz., 20c; ¼ lb., 40c; 1 lb., \$1.00.

GOULD'S RELIABLE FORCING★. 21 DAYS. Is the earliest of the greenhouse forcing type. Skin a beautiful bright scarlet, flesh crystal white, somewhat turnip-shaped, producing a very small top, very desirable for forcing. Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.

GOULD'S EARLY SCARLET GLOBE, SHORT TOP★. 23 DAYS. Recommended for market gardeners planting on muck, peat or especially rich soil. Tops are very short, 2½ to 3 inches. Color bright scarlet-red. Especially developed for summer planting and greenhouse forcing. Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.

COMET★. 25 DAYS. Brightest colored of the bunching or table radishes. Globe shaped; does not get pithy. Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.

PRICES

Due to present conditions over which we have no control, all prices quoted in this catalog are subject to change without notice. Add postage on mail orders.

RADISH—Continued

GOULD'S SCARLET TURNIP WHITE TIP★. 26 DAYS. It is very early and does equally well for greenhouse forcing and for outdoor culture. The flavor is sweet, mild and crisp, color a bright scarlet with white tips. Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.

SPARKLER. 26 DAYS. Similar to scarlet turnip white tip, but has larger white area around tip. The roots are solid, crisp and sweet. The tops are small. Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.

CRIMSON GIANT. 30 DAYS. A large growing sort, of a beautiful deep crimson color. Flesh is white, mild in flavor, firm and crisp. Roots spherical to slightly top shaped. Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.

LONG VARIETIES

FRENCH BREAKFAST. 25 DAYS. A favorite for home and market gardens or forcing. Bright scarlet, with pure white tip. Oblong in shape, of medium size, and a rapid grower. It is a fine table variety due to its excellent quality and appearance. Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.

WHITE ICICLE. 27 DAYS. Roots 5 to 6 inches thick, pure white with small tops. It is crisp, mild, sweet and tender both when young and until it attains a large size. One of the finest sorts for the home garden or for market. Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.

LONG SCARLET SHORT TOP. 30 DAYS. A long red radish of good quality. Matures to a size of about 4 to 5 inches but it can be used before fully grown. Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.

WINTER RADISHES

Try some this year. These grow to large size and keep well for winter and spring use. Sow seed from middle of June to August 1st, for fall and winter use.

CHINA ROSE. 52 DAYS. Of a bright rose color, flesh solid and crisp. The shape is long but stump rooted, tapering abruptly to a small tip. 6 to 7 inches long. Pack in sand to enjoy fresh, crisp radishes all winter. Pkt., 10c; oz., 20c; ¼ lb., 45c; 1 lb., \$1.25.

CALIFORNIA MAMMOTH WHITE. 55 DAYS. Skin and flesh are white, very tender and crisp. Mildly pungent but well flavored. Roots are about 8 inches long, and 2 to 3 inches in diameter. Pkt., 10c; oz., 20c; ¼ lb., 45c; 1 lb., \$1.25.

LONG BLACK SPANISH. 56 DAYS. One of the largest and best keepers. The shape is oblong, tapering to a point, the skin almost black, flesh white, firm, crisp and pungent. Roots 8 to 9 inches long, 2½ inches in diameter at shoulder. Pkt., 10c; oz., 20c; ¼ lb., 45c; 1 lb., \$1.25.

ROUND BLACK SPANISH★. 56 DAYS. A large round turnip-shaped root, growing to as much as 3 to 4 inches in diameter. The skin is black, but the flesh is white, firm, crisp and pungent, an excellent keeper. Pkt., 10c; oz., 20c; ¼ lb., 45c; 1 lb., \$1.25.

PRICES

Due to present conditions over which we have no control, all prices quoted in this catalog are subject to change without notice. Add postage on mail orders.

RUTABAGA

AMERICAN PURPLE TOP★. 88 DAYS. A hardy variety with a small neck; roots are large globe-shaped with a very small tap root. The color is a bright yellow with a purple top, flesh solid, tender and sweet. A good yielder and keeper. Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., 75c.

NECKLESS PURPLE TOP★. 84 DAYS. Grows to medium size. Flesh of a bright golden color. Tops small purple and neckless, flesh deep yellow and fine grained. A very fine variety for table use. Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., 75c.

LAURENTIAN★. 92 DAYS. A new purple top variety. Clean, well shaped root, almost neckless, skin thick, good keeper. Flesh light yellow or cream color, fine grained, excellent quality. Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.

SALSIFY (VEGETABLE OYSTER)

Salsify is used the same as carrots, or after having been boiled, make into cakes and fry like oysters which they resemble in flavor. Culture of salsify is the same as parsnips. One ounce of seed will sow 60 feet of row.

SANDWICH ISLAND. 150 TO 180 DAYS. Grows to a large size, is of fine quality and flavor. The roots, when cooked, are very palatable and nutritious with a flavor similar to oysters. A very desirable winter vegetable. Pkt., 10c; oz., 60c; ¼ lb., \$1.50.



Salsify

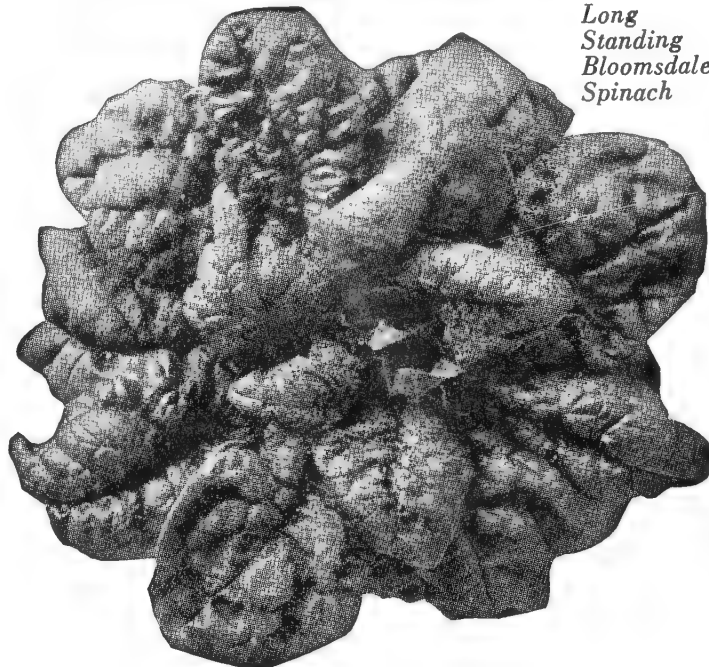
SORREL

The leaves are esteemed as a salad or may be boiled and served like spinach. Sow in rows 18 inches apart. It is hardy and roots should be divided every 3 or 4 years. Matures in 55 to 70 days. Pkt., 10c; oz., 60c.

SPINACH

Spinach is very rich in Vitamins A and C, and also contributes Vitamins B and G, nicotinic acid, and iron.

CULTURE. Sow just as soon as the ground will permit working in spring. Sow in rows 12 inches apart and 1 inch deep. If given some protection over winter, spinach may be sown in the fall for spring use. Spinach being of a leafy growth only, should be kept growing fast in order to be tender and palatable. The soil should be well fertilized with a complete fertilizer. After the spinach is up it should receive a side-dressing of nitrate of soda or sulphate of ammonia about once a week until fit for market.



Long Standing Bloomsdale Spinach

LONG STANDING BLOOMSDALE★f. 46 DAYS. Has been developed along new and scientific lines of breeding. This strain of Bloomsdale is one of the outstanding varieties for crinkly leaf. Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 50c.

BLOOMSDALE★. 45 DAYS. Leaves medium large, heavily crumpled, deep green color. Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 50c.

HEAVY PACK★. 44-46 DAYS. Plants very vigorous, large and spreading, but not flat. Leaves arrow-shaped with rounded tip, dark green and partially crumpled. Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 50c.

GIANT NOBEL★f. 45 DAYS. Large, smooth, deep green leaves, thick arrow-shaped with round tip. Very prolific. Popular with canners as well as home gardeners. Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 50c.

NEW ZEALAND. 70 DAYS. It furnishes an abundance of delightful "greens" throughout the summer and right up to cold weather. Both the leaves and the stalks of the plant are very fleshy and extremely brittle and of the finest quality when cooked. Do not sow seed until May 1st or when the soil is fairly warm. Soak the seed before sowing. Pkt., 10c; oz., 20c; ¼ lb., 35c; 1 lb., 75c.

ROUND THICK LEAF. 45 DAYS. A popular variety for spring and fall planting. Plants have large, long leaves, spreading out on the ground. Leaves thick, arrow-shaped with round tip. A favorite with canners and home gardeners. Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 50c.

VIRGINIA BLIGHT RESISTANT. 40 DAYS. Dark green crumpled leaves, tapering to rounded point. A fast maturing spring strain, resistant to cold, much used for fall planting. Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 50c.

KING OF DENMARK★f. 45 DAYS. Stands longer than most sorts. Leaves large, rounded, deep green. Vigorous grower with spreading habit. Excellent for home gardens and canners. Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 50c.

TAMPALA

Is a delicious green vegetable, the leaves of which are cooked, prepared and served like spinach. It retains its tenderness for a longer time, has a consistency and flavor all its own, less irony and less puckery than spinach, more flavor, more body, and more food value than either spinach or chard—a pleasing change from all other "greens." Will keep on producing all summer. Pkt., 10c.

SQUASH

CULTURE. Plant when all danger of frost is past. For vining varieties plant in hills 8 to 10 feet apart each way. The early summer or bush varieties may be planted 5 feet apart. Place 8 to 10 seeds in a hill one inch deep. When plants are three inches high thin to 3 or 4 in a hill.

SUMMER VARIETIES

WHITE BUSH SCALLOP. 53 DAYS. Matures early and will bear quickly. The squash are large size, somewhat flattened, pure white, with thick flesh of good quality. Pkt., 10c; oz., 25c; ¼ lb., 60c; 1 lb., \$1.75.

CASERTA (Bush). 46 TO 50 DAYS. An All-America Gold Medal selection for 1949. Is easy to grow, plants being erect and runnerless. 30 fruits per plant not unusual. Has long cylindrical shape, light, glossy green skin with broken stripes of dull, very dark green. Has good flesh texture that makes a flavorful, attractive dish. Pkt., 10c; oz., 30c; ¼ lb., 75c.

ZUCCHINI (Black). 55 TO 60 DAYS. Produces extremely dark green fruits of fine quality. The plants are truly bush, flesh greenish white, well flavored fruits about 12 inches long and 2½ inches in diameter. They are of best quality when 4 to 6 inches long. Pkt., 10c; oz., 25c; ¼ lb., 60c; 1 lb., \$1.75.

COCOZELLE OR VEGETABLE MARROW. 60 DAYS. The fruit is long and slender, of a dark green color at first, but when maturing it changes to a lighter green with yellowish stripes. In best condition to use when 8 to 12 inches long. May be sliced and fried or baked. Pkt., 10c; oz., 25c; ¼ lb., 60c; 1 lb., \$1.75.

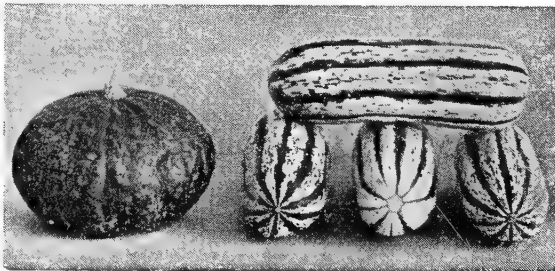
EARLY PROLIFIC STRAIGHTNECK. 56 DAYS. A selection of summer squash with a straight neck instead of the usual crookneck. It grows about 18 to 20 inches in length, is very thick meat and has a beautiful orange color. Pkt., 10c; oz., 25c; ¼ lb., 60c; 1 lb., \$1.75.

GOLDEN SUMMER CROOKNECK. 55 DAYS. The fruits are of true crookneck type, heavily warted and of light golden color, 18 to 24 inches long, 4½ inches through. For home or market garden. Pkt., 10c; oz., 25c; ¼ lb., 60c; 1 lb., \$1.75.

WINTER VARIETIES

SWEET POTATO SQUASH (Delicata). 100 DAYS. Fruits grow 6 to 8 inches long. Have a very thick flesh, unusually sweet and tender. They are a real table delicacy. Pkt., 10c; oz., 35c; ¼ lb., \$1.00; 1 lb., \$3.25.

BUTTERCUP. 100 DAYS. It is medium to small in size, the yellow flesh is very thick and the flavor delicious. The shape is somewhat of a turban with a tendency to being flat. Outside color is dark green. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$2.25.



Buttercup

Sweet Potato Squash

BANANA SQUASH. 110 DAYS. One of the best varieties for either summer or winter use. Shell is grayish-green and the flesh is a deep golden color. Cooks smooth and of a delicious flavor. Fruits measure 20 to 24 inches long, 6 inches thick. Excellent for pies. Pkt., 10c; oz., 30c; ¼ lb., 65c; 1 lb., \$2.00.

KITCHENETTE. 110 DAYS. It is a small size Hubbard, weight about 5 pounds each, outside a glossy dark green color. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50.

BUTTERNUT SQUASH. 103 DAYS. Do not confuse this squash with Buttercup. Butternut is a winter variety of very high quality. Flesh is golden orange, firm and of smooth texture. It is not stringy. Fruits are club shaped, about 10 to 12 inches long, 4 to 5 inches in diameter. Skin is tan-cream in color. Excellent baking squash. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$2.25.

GOLDEN DELICIOUS. 100 DAYS. Its dry flesh makes it desirable for canning and home gardens. Fruits top-shaped, weight 7 lbs. Skin bright reddish orange with deep green tip at blossom end. Thick sweet flesh, golden orange color. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$2.25.

TURBAN. 100 DAYS. This is an old favorite of fine quality and a good keeper. It is turban shaped, color varies from green to yellow to dark red. Can be shellacked and used as an ornamental gourd. Pkt., 10c; oz., 35c; ¼ lb., 85c.

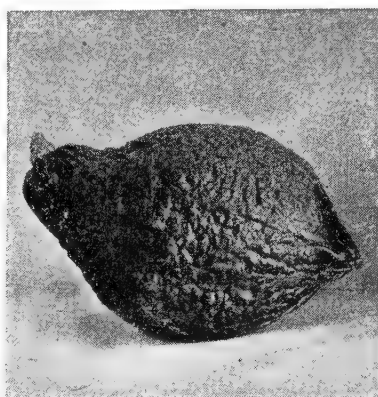
MATURITY FIGURES

After the name of most vegetable varieties you will find figures representing the approximate number of days required to mature the plants, from the time of planting the seed to the time the vegetables are ready to eat.

TABLE QUEEN. 80 DAYS. Fruit acorn shaped, color dark green, size 6 inches long and 4 inches in diameter, of good quality. Flesh is rich orange-yellow, cooking as dry and sweet as a sweet potato. A fine variety for home or market garden. Pkt., 10c; oz., 25c; ¼ lb., 60c; 1 lb., \$1.75.

MAMMOTH TABLE QUEEN. 80 DAYS. Similar to the well known Table Queen excepting size which is about double that of the regular Table Queen. Pkt., 10c; oz., 25c; ¼ lb., 60c; 1 lb., \$1.75.

UCONN (Bush). 75 DAYS. Another All-America Gold Medal Winner. Of a Table Queen type but growing on bush instead of vine. Fruits are dark green with a slight flecking. A heavy bearer. Pkt., 10c; oz., 30c; ¼ lb., 75c; 1 lb., \$2.25.



Improved Hubbard

GOULD'S IMPROVED HUBBARD. 110 DAYS. This squash is the favorite for long keeping. The vines are strong and very productive. The skin is rather smooth, of a dark green color. When well matured and dried, it becomes very hard and will keep well into the winter. Flesh is bright orange yellow, fine grained dry, sweet flavored. Pkt., 10c; oz., 30c; ¼ lb., 65c; 1 lb., \$2.00.

CHICAGO WARTED HUBBARD. 110 DAYS. Very similar to Gould's Hubbard, but skin is darker and covered with heavy warts. Also a good keeper. Pkt., 10c; oz., 30c; ¼ lb., 65c; 1 lb., \$2.00.

GOULD'S BLUE HUBBARD. 110 DAYS. A strain of the regular Hubbard. Fruit is large, blue-gray shell, long keeping and finest quality. A very popular variety. Flesh is bright yellow, thick, fine grained, very dry and sweet. Pkt., 10c; oz., 30c; ¼ lb., 65c; 1 lb., \$2.00.

SWISS CHARD

Chard is rich in Vitamin A and iron, also good for their rich mineral and tonic properties.

FORDHOOK SWISS CHARD. 50 TO 56 DAYS. White leaf stalks and midribs are cooked and served in the same manner as asparagus, making a most delicious vegetable. Cook leaves like spinach. Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., 90c.

GIANT LUCULLUS SWISS CHARD. 50 TO 55 DAYS. The favorite of the chard family. The leaves are very large and curly and make a very attractive dish when cooked up as greens. Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., 90c.

BURPEE'S RHUBARB CHARD. 60 DAYS. A new Swiss chard that looks like rhubarb—large center rib of beautiful red. Grows quick and continuous for several months. Delicious and tasty with a fine flavor. Pkt., 10c; oz., 25c; ¼ lb., 60c.

TOBACCO

Sow tobacco seed in greenhouse or hotbed in March or April and transplant to the open field when danger of frost is past. **CONNECTICUT LEAF.** Pkt., 10c; oz., 75c.

TURNIPS

CULTURE. Turnips are the easiest to grow of any root crop. Sow in early spring for summer crop, and late in July or early August for late fall crop. One ounce will sow 200 feet in drill; thin to 4 inches apart.

SHOGGIN. 42 DAYS. Adapted to table use for roots, but especially good for greens. Quick growing and supplies large edible leaves and round white roots. Flesh is white, and of excellent quality. Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., 85c.

PURPLE TOP STRAP-LEAVED. 46 DAYS. Rather flat and of medium size. Color: purple above ground and white below, flesh white, fine grained, sweet and never stringy. Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., 75c.

PURPLE TOP WHITE GLOBE. 58 DAYS. A general favorite with all, will form good sized bulbs in seven or eight weeks. Of a perfect globe shape with smooth white skin; flesh pure white, firm, sweet and crisp. Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., 75c.

SNOWBALL or EARLY SIX WEEKS. 43 DAYS. Very early, round with pure white flesh. One of the best table varieties. Very mild and an excellent winter keeper. Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., 85c.

Seeds are postpaid in packets only. In larger amounts add postage at the rates given on page 2.

TOMATO

LISTED IN ORDER OF EARLINESS

CULTURE. Tomato seed should be planted in a box in the house or in hotbeds or greenhouse about the 1st of March, then transplanted once or twice to develop the roots to a good size before setting out in the open. Do not set out until all danger of frost is past, as tomatoes are easily damaged by frost.

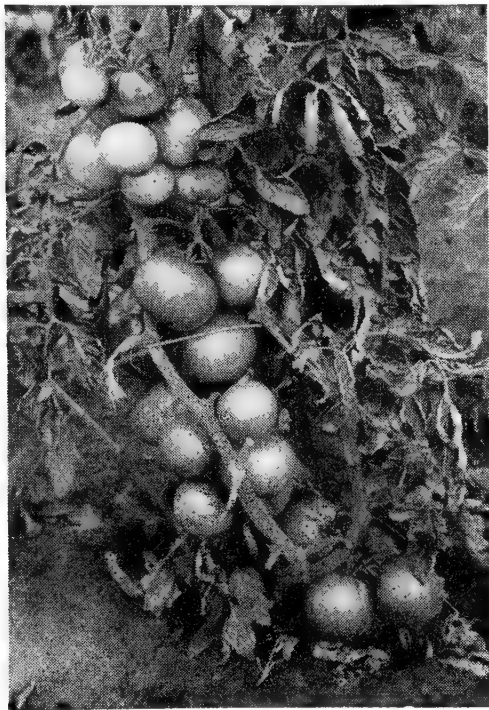
JUBILEE TOMATO (Yellow). 90 DAYS. Skin is yellow, flesh a beautiful tangerine orange. A heavy bearer and quality and flavor equal to the red tomato. Pkt., 15c; ¼ oz., 35c; ½ oz., 50c; 1 oz., 90c.

EARLIANA "PRIVATE STOCK"★. 95 DAYS. The result of many years' selection from the most perfect and earliest stock. Produces more uniform fruit of a smooth, perfect shape than any other early variety. Pkt., 15c; ¼ oz., 60c; ½ oz., \$1.00; 1 oz., \$1.75; 2 oz., \$3.00.

POLARIS EXTRA EARLY HYBRID. 95 DAYS. Heavy yielding of excellent mild flavor, medium size, deep scarlet red color. Pkt., 30 seeds, 35c; ¼ oz., \$5.00; ½ oz., \$8.50.

EARLIANA SPECIAL. 98 DAYS. One of the very earliest sorts. Fruit of fair size, color bright scarlet. A prolific bearer, yielding fruit in clusters, particularly in warm, sandy soil. Pkt., 10c; oz., 90c; ¼ lb., \$3.00.

BREAK O'DAY. 98 DAYS. A wilt-resistant tomato, nearly as early as Earliana and as productive as Marglobe. Fruits are large, smooth, meaty, red and globe-shaped. Free from cracking. Pkt., 10c; oz., 85c; ¼ lb., \$2.50.



Gould's Early Standard Tomato

seasons there is nothing equal to Firesteel. It will set fruit when other types are dropping their blossoms. Pkt., 10c; oz., 90c; ¼ lb., \$3.00.

SIOUX★. 100 DAYS. An early, heavy yielding tomato that is becoming very popular with market gardeners. A self topper, fruit large, globe shaped, dark red inside and out. Good slicer. Fine for home and roadside market. Pkt., 15c; oz., \$1.10; ¼ lb., \$3.50.

JOHN BAER★. 105 DAYS. Is considered one of the best early tomatoes grown. Fruit is smooth, uniform in size, nearly round, firm and of excellent quality. Will hold up well for shipping. It is a heavy bearer that will last all summer. A favorite with market gardeners, shippers and canners. Pkt., 10c; oz., 85c; ¼ lb., \$2.50.

BONNY BEST★. 105 DAYS. A very popular second early variety. Vines are vigorous, prolific; fruit red, solid, medium in size, smooth, small core and very uniform in size and color. A very popular variety for early market and also a good home garden tomato. Pkt., 10c; oz., 85c; ¼ lb., \$2.50.

WISCONSIN NO. 55★. 105 DAYS. A new early heavy yielding variety. The plant grows quite tall and then has a tendency to spread and become slightly open. The fruit is deep, round and dark red. It is medium sized and has a fairly thick wall. Pkt., 10c; 1 oz., 90c; ¼ lb., \$3.00.

PRITCHARD★/ (Scarlet Topper). 107 DAYS. This variety is the most disease, wilt and rust-resisting tomato. The fruits are scarlet, large, globe-shaped and very attractive, similar to Marglobe. Pritchard is highly recommended for both home and market garden. Pkt., 10c; oz., 90c; ¼ lb., \$3.00.

The vegetables best suited for market are indicated by a star (★) after the name of the variety.

SUPER MARGLOBE★/. 105 TO 110 DAYS. A new improved super strain, maturing earlier, fruit larger, more solid, uniform in color and heavy yielding. Pkt., 15c; oz., 90c; ¼ lb., \$3.00.

MARGLOBE★/. 110 DAYS. A fine blight and disease resistant tomato. It produces immense yields of handsome deep red globe-shaped tomatoes of good size with a flavor that is between the acid and non-acid sorts. A very desirable salad or slicing tomato. A fine tomato for the home or market garden and for shipping. Pkt., 10c; oz., 85c; ¼ lb., \$2.50.

STOKESDALE★. 110 DAYS. A large, second early, round tomato of intense scarlet color. A heavy yielder and a market gardener favorite. Comparatively free from stem-end crack. Very meaty and of fine flavor. Pkt., 10c; oz., 85c; ¼ lb., \$2.50.

RUTGERS★/. 112 DAYS. It is especially adapted for market gardeners, the flesh being firm and sparkling red, maturing about the same time as Marglobe, which it also resembles. Pkt., 10c; oz., 85c; ¼ lb., \$2.50.

STONE★. 115 DAYS. It is a good late canning tomato and market garden variety. The plants produce a heavy yield of fruit where the growing season is long. The fruit is bright red in color, of good size, smooth, round, meaty and fine flavor. Pkt., 10c; oz., 85c; ¼ lb., \$2.50.

PONDEROSA. 120 DAYS. This is the largest fruited tomato. It is solid with small seed cells, of fine quality for slicing. Some of the fruit is oblong in shape and somewhat ribbed. The color is purplish red. The vines are strong and if staked will grow to 6 or 7 feet. Pkt., 15c; oz., \$1.25; ¼ lb., \$3.75.

CRIMSON CUSHION or BEEFSTEAK. 120 DAYS. A scarlet "sport" from Ponderosa which it also resembles. Is very large, round, with bright scarlet skin, solid flesh of fine quality and seed cells small. Plants are very prolific. Pkt., 15c; oz., \$1.25; ¼ lb., \$3.75.

DWARF CHAMPION. 125 DAYS. Dwarf and compact and sometimes called "Tree Tomato." Stands up well even when loaded with fruit, having a stiff, bushy stem. May be planted close together making it desirable for small gardens. The fruit is of a purplish pink color, medium size, smooth and nearly round. Skin is tough and flesh solid. Pkt., 10c; oz., 85c; ¼ lb., \$2.50.

OXHEART. 130 DAYS. Fruit is large and very solid with few seeds. It is heart-shaped, the skin pink, and the flavor delicious. Used for second early and main crop. A fine variety. Pkt., 15c; oz., \$1.50; ¼ lb., \$5.00.

MATURITY FIGURES

After the name of most vegetable varieties you will find figures representing the approximate number of days required to mature the plants, from the time of planting the seed to the time the vegetables are ready to eat.

SMALL FRUITED TOMATOES

GROUND CHERRY or GOLDEN HUSK. 120 DAYS. These are greatly valued for preserves, pies, etc. Small yellow fruits enclosed in a thin, papery husk. Very sweet and mild. Pkt., 15c; oz., \$1.10.

SAN MARZANO. Small oblong fruits about 3 inches long borne in clusters, used mostly for making tomato paste. Pkt., 15c; oz., \$1.10.

ITALIAN RED PLUM. 120 DAYS. This is a bright red plum shaped tomato. The fruit is borne in clusters of six or more. It is very prolific and is used extensively for salads and preserves. Pkt., 15c; oz., \$1.10.

RED CHERRY. 120 DAYS. Small, round, rich deep red fruits, ½ inch in diameter. Used for salads, pickling, etc. Pkt., 15c; oz., \$1.10.

YELLOW PEAR. 120 DAYS. Fruit is pear shaped, slightly larger than the Yellow Plum, of clear yellow color. Pkt., 15c; oz., \$1.10.

YELLOW PLUM. 120 DAYS. A small yellow fruited variety, finely flavored, resembling a plum in size and form. Used mostly for preserving. Pkt., 15c; oz., \$1.10.

VEGETABLE PLANTS

During the months of May and June we offer seedling or pot-grown vegetable plants in the most popular varieties. The plant season usually begins the forepart of May and extends well into June. We carry exceptionally fine plants and people who want better than the ordinary come to us. Good plants at reasonable prices will be offered in season.

Cabbage, Early.
Cabbage, Late.
Cauliflower.
Celeriac (Root Celery).
Celery Plants.

Chives.
Eggplant.
Ground Cherry.
Parsley Plants.
Peppers, Sweet or Hot.

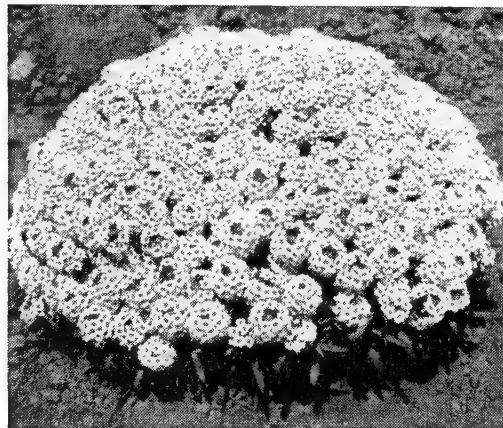
Tomatoes, include Gould's Standard, John Baer, Earliana, Bonny Best, Marglobe, Rutgers, Dwarf Champion, Ground Cherry, Yellow Plum, Red Cherry, Ponderosa, Jubilee, Pritchard, Firesteel, etc.



CULTURE SUGGESTIONS FOR FLOWER SEEDS

Flower seeds should not be planted out before ground warms up. Before planting, soil should be worked up and enriched with fertilizer. Do not sow your seeds when ground is wet. A good rule is to cover seeds four to six times their diameter, which means that some varieties need merely to be pressed into the soil. Most seeds are planted too deeply. Press the earth firmly around the seed when planting. As plants come up, thin out to prevent crowding. Place supports around tall-growing varieties so that they will not be damaged by wind and rain.

STARTING INDOORS. In order to get earlier flowers and a longer blooming season, a number of annuals such as Antirrhinum or Snapdragon, Carnations, Celosia, Lobelia, Pansies, Petunias, Salpiglossis, Stocks, Verbenas and others had best be started indoors, or in cold frames.



Alyssum—Little Gem

Abronia (Sand Verbena). Delights in dry, poor soil and sunny situation. A rapid grower for baskets, window boxes or rockeries. Its fragrant flowers of bright rose with white center bloom in summer and fall. Plants 6 inches. **Umbellata.** Pkt. 10c.

Acroclinium (Everlasting). Plants about 15 inches high. Lovely white or rosy pink flowers, which when cut in the bud state, can be dried and used in winter bouquets. **LARGE FLOWERED DOUBLE HYBRIDS.** Greatly improved. Pkt. 10c.

Agathea (Blue Daisy.) A plant 1 to 2 feet tall, with an abundance of sky-blue, daisy-like flowers. Use for bedding in a protected place, also fine for house plant. **Coelestis.** Pkt. 10c.

Anagallis (Pimpernel). Dwarf plants 6 to 8 inches tall, with blue or red flowers. Bloom freely all summer. Does best in a sunny location. **Grandiflora,** mixed colors. Pkt. 10c.

ANNUAL FLOWER SEEDS

Ageratum A half hardy annual of easy culture, especially adapted for borders and bedding as it is literally covered with clusters of feathery blossoms from early summer until frost.

MIDGET BLUE. Only 3 to 4 inches tall, with dense spread of 12 inches, freely producing tiny tufts of true azure-blue flowers. Pkt. 15c.

FAIRY PINK. A compact plant of a delightful soft salmon rose-pink color, height of 5 inches. Pkt. 15c.

BLUE BALL. Dwarf Compact. Deep dark blue, 9 inches high. Pkt. 10c.

BLUE CAP. Dwarf Compact. Miniature. 6 inches. Pkt. 10c.

BLUE PERFECTION. Semi-dwarf. 8 inches high. Pkt. 10c.

PURPLE PERFECTION. Vivid dark purple, compact. 8 inches. Pkt. 10c.

LITTLE BLUE STAR. Flowers open light blue with purple center. 4 inches. Pkt. 10c.

MEXICANUM BLUE. 18 inches high. Pkt. 10c.

Alyssum, Sweet For borders, edging and rock work, we recommend a liberal use of this dainty little flower. It will keep blooming well into November here in the Northwest. Stands many severe freezes.

LITTLE GEM. Of dwarf compact habit, only 4 inches high. Plants start blooming very early and flower until late in the fall. One of the easiest grown. Pkt., 10c; 1/8 oz., 25c; 1/4 oz., 35c; 1/2 oz., 50c.

VIOLET QUEEN. Plants are dwarf, compact, neat in habit, free flowering. The small sweetly scented flowers are a rich, deep shade of violet. Pkt. 10c.

LUTESCENS. Dwarf, cream or straw color. 5 inches. Pkt. 10c.

CARPET OF SNOW (Procumbens). 2 to 3 inches high, pure white flowers that bloom so freely that the plant has a snow-like appearance all summer. Pkt., 10c; 1/8 oz., 25c; 1/4 oz., 35c; 1/2 oz., 60c.

SNOW CLOTH (Procumbens). An excellent new selection, plants flat, compact mass of pure white flowers. Pkt. 10c.

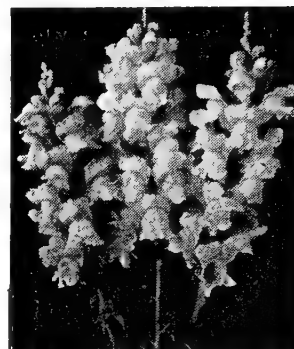
MARITIMUM. Of creeping habit, 9 inches. Fragrant white flowers bloom all summer. Pkt. 10c.

LILAC QUEEN. A very pretty dwarf plant growing about 6 inches high, of deep lavender-lilac color. Pkt. 10c.

MINIMUM. A dwarf plant. 2 to 3 in. high, with white flowers. Pkt. 10c.

Amaranthus Brilliant foliaged annuals used as centers of large beds or for borders of tall plants. Give plants plenty of room. Grow 3 to 5 feet high. Mixed. Pkt. 10c.

Anchusa (Cape Forget-Me-Not). A rare annual, grows 2 feet high, blooming all summer. It resembles a large beautiful Forget-Me-Not of deep blue color. **Blue Bird.** Pkt. 10c.



Antirrhinum (Snapdragon).

One of the most popular cut-flowers. Giant Snapdragons grow 2 to 3 feet high. For early blooms sow indoors in March and set out in the open after all danger of frost is past. Plant or thin to 9 inches apart.

GRANDIFLORA RUST RESISTANT. Where Antirrhinums cannot be grown on account of the rust which attacks the foliage, the rust resistant varieties now assure success.

AMBER AND GOLD. Golden amber.

APPLE BLOSSOM. Rose pink.

BLACK PRINCE. Nearly black.

CAMPFIRE. Luminous scarlet.

CANARY BIRD. Giant yellow.

CHERRY ROSE. Deep cherry rose.

COPPER KING. Bronze brown.

GARNET. Velvety crimson.

INDIAN GIRL. Old gold.

LOVELINESS. Soft rose pink.

PINK SENSATION. Pure pink.

SHASTA. Pure white.

WILD FIRE. Bright orange scarlet.

YELLOW GIANT. Deep yellow.

All colors, mixed or individual colors of the above. Pkt. 10c.

SUPER MAJESTICS, RUST RESISTANT. This type is base-branching, valuable for cutting. **Finest Mixed.** Pkt. 10c.

TETRA, GIANT RUFFLED SUPER-FINE MIXTURE. Exciting new ruffled snaps, the largest flowered of all snapdragons in beautiful colors and combinations. Pkt. 15c.

SUPER MAJESTIC CALIFORNIA GIANTS. Flowers on long stems. Closely spaced large florets. Mixed colors. Pkt. 10c.

BURPEE DOUBLE. Flowers are rich deep golden yellow; buds flushed rose pink. Pkt. 35c.

BURPEE'S NEW GIANT SKY-SCRAPER. Tallest growing Snapdragon. Extra large flowers. Mixed colors. Pkt. 15c.

DOUBLE LEMONADE. Immense double clear primrose-yellow flowers. Tall. Pkt. 50c.

Arctotis (African Daisy). A handsome annual, forming a branching bush 2 to 3 feet high. Its flowers are large and showy, pure white on the upper surface, the reverse of the petals being a pale blue.

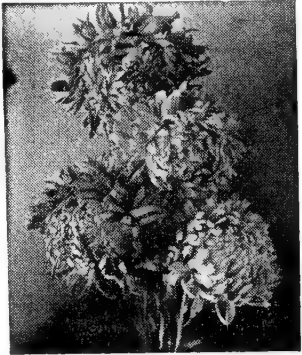
GRANDIS. Blooms from early summer until frost. Pkt. 10c.

LARGE FLOWERED HYBRIDS. Many colors. 1 foot. Pkt. 15c.

Asters Rose Marie. Best cut-flower color of rose-pink; highly fluffy centers and long, narrow petals on 3 to 4-inch flowers, borne on long, stout stems. Wilt-resistant. For florist and garden culture. Pkt. 10c.

ASTER EARLY GIANT. Wilt-Resistant, Light Blue. Delightful clear blue, extremely large flowered, early bloomer. Pkt. 10c.

HEARTS OF FRANCE. Wilt R. Medium size flowers open ruby-red and color deepens with age. Plants are 1½ to 2 feet tall, of branching type and very robust. Begin to bloom early. Pkt. 10c.



Aster Beauty

EARLY BEAUTY. Wilt R. Flowers from early July until frost. The plants are from 2½ to 3 feet, with long, stout stems bearing large flowers. Crimson, Purple, White, Azure Blue, Deep Rose, or Mixed. Pkt. 10c.



Queen of the Market

BALLET QUEEN. Fascinating shade of deep salmon rose; 3½-inch flowers borne on plants 15 to 20 inches high. Extremely wilt resistant, unsurpassed for border work and cutting. Pkt. 15c.

SINGLE CHINENSIS. Wilt R. Plants 2 to 2½ feet, flowers daisy-like, petals wide and closely placed. Showy plants. Mixed colors. Pkt. 10c.

IMPROVED CREGO GIANT COMET. This fine Aster grows over 2 feet tall and is well branched; of free, sturdy growth. The fluffy graceful flowers resemble the Chrysanthemum in form, rarely less than 3 inches across.

WILT RESISTANT. Crimson, Azure Blue, Purple, Deep Rose, Orchid, Navy Blue, Mid-blue, White, Rose Pink or Mixed. Pkt. 10c.

PRINCESS. Wilt Resistant. 3-3½ inch flowers on long stems have crested centers that remain full when flower is completely open, surrounded by multiple rows of guard petals. Plants 2-2½ ft. tall, branching habit. Bloom in August. Pkt., 10c.

IMBRICATED POMPON ASTER. Plants upright, 14 to 16 inches, small round pompon flowers, outside row short guard petals, very early. Finest Mixed. Pkt. 10c.

AMERICAN or VICK'S LATE BRANCHING. This superb strain produces plants 2 to 3 feet high, bearing on long strong stems their handsome chrysanthemum-like flowers 4 inches across. The large, fluffy blooms are double to the center.

WILT RESISTANT. Crimson, Deep Rose, Purple, Azure Blue, Light Rose, White or Mixed. Pkt. 10c.

IMPROVED GIANTS OF CALIFORNIA. Their immense size and beauty, as well as their long and sturdy stems make them very attractive. Plants, 2½ to 3 feet. Mixed colors, double. Pkt. 10c.

GOLDEN SHEAF. Wilt R. The deepest Yellow Aster that is wilt resistant. The flowers are fully double, with an attractive crest-like center, of good substance and fine depth of petal. Plants, 2 feet tall. Pkt. 10c.

BALL. Wilt R. Early deep rose, late white; early white; early purple; either color, each. Pkt. 10c.

EARLY ROYAL. Wilt R. Plants branching, 1½ to 2 feet, blooming directly following the Queen of the Market. Azure Blue, Deep Rose, Scarlet, Purple, Coppery Rose, White or Mixed. Pkt. 10c.

BACHELOR'S BUTTON. (See Centaurea Cyanus).

Balloon Vine Annual climber of rapid growth; foliage very pretty; flowers white; seed vessels look like miniature balloons. Height 8 feet; succeeds best in light soil and warm situation. Pkt. 10c.

Balsam (Lady Slipper). Showy and easily grown tender annuals, succeeding best in sunny locations where there is rich loam. Bloom from July to October. 18 inches high. Mixed colors. Pkt. 10c.

Bartonia Aurea (Blazing Star). Very showy hardy annuals producing golden yellow flowers during the summer above its gray and downy thistle-like foliage. Sow it where it is to remain. Does not bear transplanting. Prefers moist situation. Fine for borders. 12 to 18 inches. Pkt. 10c.

Beans, Scarlet Runner A rapid growing annual climber, producing bright red flowers from July to September. The dense foliage makes it splendid for porches or wherever shade is desired. Vines grow about 10 feet. Pkt. 15c.

Brachycome

(Swan River Daisy). A dwarf, free-flowering plant which blooms in great profusion the greater part of the summer.

The daisy-like flowers are blue and white, plants about 9 to 12 inches tall. Mixed colors. Pkt. 10c.



Swan River Daisy

For Window Boxes, Hanging Baskets, etc.

Abronia.	Geraniums.
Ageratum.	Lantana, dwarf.
Alyssum.	Lobelia.
Calendula.	Nasturtium.
Candytuft.	Petunia.

Browallia Pretty flowering annuals suitable for summer bedding. The white or blue flowers are fine for cutting. Lift and cut back for house planting. 12 inches high. **Elate Mixed.** Pkt. 10c.

Bush Balsam Differs from the Lady Slipper Balsam in that the flowers appear in clusters on the top of the stems like double roses. Plants are 18 to 24 inches high. Mixture of white, rose and red. Pkt. 15c.



Cacalia

Cacalia (Tassel Flower). An attractive bedding plant about 18 inches tall bearing tassel-like orange and scarlet flowers on long, wiry stems. A good cut flower. Blooms June to frost. Mixed. Pkt. 10c.

FLOWERING PLANTS

During the months of May and early June, we offer daily many thousands of annual seedling flower plants.

Calendula Free flowering plants of easy culture, succeeding everywhere and flowering continuously. The flowers are double, showy. Height, 15 to 18 inches.

MIXED COLORS. Pkt. 10c.

FRILLED BEAUTY. Deep orange with frilled petals. Pkt. 10c.

BALLS APRICOT. Rich apricot with dark brown center. Pkt. 10c.

BALLS GOLD. Dark golden yellow flowers, erect, long stems. Pkt. 10c.

BALLS LEMON QUEEN. Deep lemon yellow, brown eye. Pkt. 10c.

BALLS ORANGE. Immense double flowers of a brilliant glistening orange, borne on long stems. Pkt. 10c.

BALLS MASTERPIECE. Long stems, deep orange, brown center. Pkt. 10c.

ORANGE KING. Orange red with a dark center. Pkt. 10c.

SUNSET SHADES. Medium sized, rounded flowers in two-toned color combinations of Orange, Lemon, Primrose and Apricot. Pkt. 10c.

YELLOW COLOSSAL. Clear yellow, large. Pkt. 10c.



Calendula, Chrysantha

ORANGE SHAGGY. Deep orange in color Pkt. 10c.

CAMPFIRE IMPROVED. Flowers are dark orange, high-lighted with a scarlet sheen. Pkt. 10c.

CHRYSANTHA. Is distinct in type, outstanding among all varieties. The large double flowers are an exquisite shade of clear yellow. Pkt. 10c.

Calliopsis

Showy and free-flowering annuals, blooming all summer. Excellent for cutting. Sow where they are to remain. Thin to 8 to 12 in. apart. Of easy culture.

TALL MIXED. 24 to 30 in. Pkt. 10c.

DWARF MIXED. 6 to 10 inches. Pkt. 10c.

GOLD CREST. Semi-double. Golden Yellow, reddish-brown center. Pkt. 10c.



Calliopsis

Candytuft Showy branching plants for edging or to fill in empty spaces in the garden. Desirable for cut flowers. Blooms 8 weeks from sowing and until frost. Plants grow from 12 to 18 inches high and succeed in any light airy place. Do not plant closer than 6 inches apart, but 8 inches is better.

UMBELLATA. Lilac, White, Crimson, Rose, Red. 12 inches. Each, pkt. 10c.

ALL COLORS MIXED. Pkt. 10c.

HYACINTH FLOWERED. White, 12 inches. Large flowers. Pkt. 10c.

LITTLE PRINCE. Snow White, 6-8 inches. Large spikes. Pkt. 10c.

Everlasting or Straw Flowers

Dry Flowers for Winter Bouquets

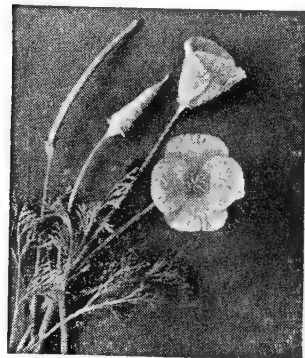
Acroclium.	Honesty.
Chinese Lantern.	Physalis.
Globe Amaranth.	Statice.
Helichrysum.	Xeranthemum.

Canterbury Bells (Annual). Will bloom from seed in less than six months. The plant grows 2 to 2½ feet tall, each plant having from 6 to 8 spikes of bloom. We offer mixed colors only. Pkt. 10c.

California Poppy (Eschscholtz ia). The beautiful and brilliant poppy-like flowers produced on a low-growing and finely-cut silver foliage will bloom freely from spring until frost. Seed must be sown where they are to remain. Plants are about 12 inches tall.

HYBRIDA DWARF ERECTA MIXED. Pkt. 10c.

AURANTIACA. Orange, spreads. Pkt. 10c.



California Poppy

Golden West. Yellow orange center. Pkt. 10c.
Lovely. Carmine rose, suffused salmon. Dwarf. Pkt. 10c.
Ramona Hybrids. Flowers are beautifully frilled and incurved. Pkt. 10c.
Creamy Crinkles. Large extra double flowers of a delightful apricot-buff. Pkt. 10c.

Canna Cannas can be grown from seed if planted early. Seed germinates irregularly in two to four weeks. Plants 2½ to 4 feet tall. Mixture from newest varieties. Pkt. 10c.

Cardinal Climber This is a very attractive, rapid growing climber, attaining a height of 25 feet, with deep cardinal-red flowers and fern-like foliage. Flowers are about one inch in diameter and are borne in clusters five to seven blooms each from mid-summer till frost. Does best in a sunny situation and rich soil. Pkt. 15c.

Carnation Chabaud's Giant Double. Blooms 5 to 6 months from sowing. Vigorous erect plants produce double, clove-scented flowers of large size. Grows 18 inches high. Mixed colors. Pkt. 10c.

MARGUERITE. Bloom in about five months after sowing, in shades of red, pink, white, and variegated. Most beautiful for cut flowers and very fragrant. Seeds should be sown indoors in February and transplanted to the open when all danger of frost is past. Height, 18 to 20 inches. All colors mixed. Pkt. 10c.

Castor Bean (Ricinus). Ornamental plants of stately growth and picturesque foliage, with brilliant colored blossoms, producing a tropical effect. It thrives in rich well-drained sandy or clay loam, but is not suited for stiff clay or very sandy soil.

ZANZIBARIENSIS. The ornamental leaves of a variety of colors beautifully lobed, are 2½ to 4 feet across. Each plant thickly set from top to bottom. Height 10 to 12 feet. Pkt. 10c, 1 oz. 25c.

MIXED. Height 5 to 12 feet. Pkt. 10c, 1 oz. 25c.



Cut-Flower Mixture

Annuals in a good variety of color, that will produce beautiful cut flowers from early summer until late in the fall. Pkt. 10c.

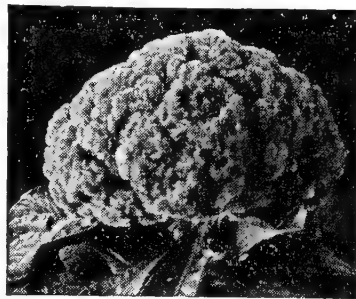
Celosia Childsii (Chinese Woolflow-er). Plants grow 2 to 3 feet high. Many branches are thrown out, each bearing a wooly-like ball of scarlet. These blooms continue to multiply and enlarge until killed by frost. Pkt. 10c.

Celosia Cristata (Cockscomb). Freely flowering annuals of easy culture, producing large comb-like heads. Does best in light soil, not too rich.

TALL. MIXED. 24 to 30 inches high. Pkt. 10c.

DWARF. MIXED. 8 to 12 inches high. Pkt. 10c.

TALL ROYAL VELVET. Rich carmine-crimson. Pkt. 10c.



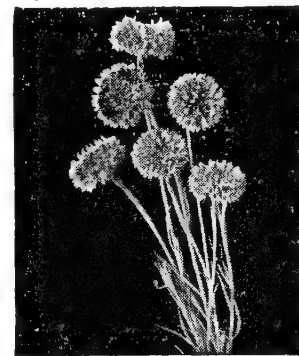
Celosia, Dwarf Cristata

Celosia Plumosa (Feathered Cockscomb). These are extra fine in groups, similar to the Cristata in habit of growth. Blossoms are slender, of a feathery appearance. Height 18 to 24 inches. Mixed. Pkt. 10c.

DWARF FIERY FEATHER. Bright scarlet, 12 inches. Pkt. 15c.

DWARF GOLDEN FEATHER. Golden yellow, 12 inches. Pkt. 15c.

Centaurea Cyanus



Centaurea Cyanus or Bachelor's Button

(Double Bachelor's Button or Cornflower). The varieties listed below are Double Giant strains, noted for their long stemmed flowers, especially fine for cutting. Plants grow 2 to 2½ feet high.
Black Boy, black maroon;
Pinkie, rose pink;
Red Boy, dark red;
Blue Boy, true cornflower blue;
Snowman, white; also in mixed colors. Pkt. 10c.

CENTAUREA CYANUS DWARF JUBILEE GEM. Plants are dwarf, compact, about 1 foot tall, and covered with vivid blue, double blooms. Fine for rockery, garden and as a pot plant. Does best in semi-shade. Pkt. 10c.

Centaurea Imperialis (Sweet Sultan). The sweet scented, artistic-shaped flowers are borne on long, strong stems, and when cut will stand for days in good condition. It is of easy culture and one of the best annuals for cut flowers. Blooms all summer. Height, 15 to 24 inches. Finest mixed. Pkt. 10c.

Climbing Vines from Seed

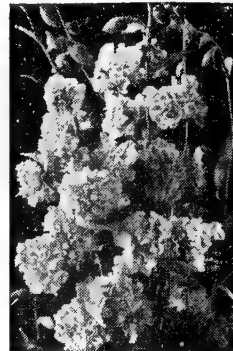
Balloon Vine. Ipomea.
Cardinal Climber. Moon Flower.
Cobaea. Morning Glory.
Cypress Vine. Nasturtium, tall.
Dolichos. Scarlet Runner.
Gourds. Thunbergia.
Hyacinth Bean.

Chrysanthemum Extensively grown for cut flowers. Grow 12 to 24 inches high, and produce on long stems large flowers resembling the daisy. Flowers June until frost. Double-mixed. Pkt. 10c.

SINGLE MERRY MIXTURE. Bright hued tri-colors. Pkt. 10c.

Clarkia Elegans

Bright and attractive annuals. They thrive in sun or shade, growing 2 to 2½ feet high, with masses of double flowers and buds which will all open in water when cut. Blooms July and August. Mixed colors. Pkt. 10c.



Clarkia Elegans

Best Annuals for Cemetery

Ageratum.	Lobelia.
Alyssum.	Pansy.
Coleus.	Petunia.
Geranium.	Portulacca.



Pink Queen

Cleome

(Spider Plant).

Showy and interesting because of the long spidery stamens and showy petals. Does well in sandy soils and sunny situations. A good bee plant.

GIANT PINK QUEEN. A tall and attractive border

plant, 4 feet high. Flowers of a delightful refreshing pink. Blooms from June until frost. Pkt. 10c.

HELEN CAMPBELL. New, flowers pure white, plant 4 feet high. Pkt. 15c.

THE GOLDEN CLEOME. Blossoms are a rich gold approaching orange. Pkt. 25c.

Climbing Vines Special Mixture

This mixture consists of Morning Glory, Hyacinth Bean, Wild Cucumber, Cypress Vine, Ipomea, Climbing Nasturtiums, etc. Pkt. 10c.

Cobaea Scandens (Cathedral Bells).

One of the handsomest and most rapid growing of the annual climbers. Climbs twenty to thirty feet in a season. The flowers are bell shaped, white or blue color. Should be started indoors. Blue. Pkt. 15c.

Coix Lachryma (Job's Tears). An ornamental grass with broad leaves and shiny, pearly-like beads. Height from 30 to 40 inches. Plant early in the spring. Pkt. 10c.

Coleus Brilliant colored foliage plants for beds, borders and edgings. Avalon Strain. Gay colors, medium leaf. Pkt. 25c.

Corn, Ornamental Indian

(Squaw). The ears of corn have multi-colored kernels, much desired for ornamental decorations. Pkt. 10c.

Cynoglossum (Chinese Forget-me-not). An annual of easiest culture forming strong plants about 18 inches high, producing sprays of flowers delicately scented through the summer. Amable. Blue. Pkt. 10c. Amable. Pink. Pkt. 15c.

CYNOGLOSSUM. FIRMAMENT. A new dwarf type of Chinese Forget-me-not of rich blue color, 15 to 18 inches high and bushy. Easy to grow. Pkt 10c.

Cosmos The Cosmos is one of the most attractive of the autumn flowering annuals. Its graceful flowers borne on long stems, rising above the feathery foliage, are very desirable for cut flowers, lasting for a week or more in water. Very effective for interplanting with early blooming perennials.

FIESTA. Received All America top Award for 1952. Flowers semi-double, a true scarlet, blooms all summer. Fine for cutting. Plants 2½ ft. high. (See back cover page.) Pkt., 25c.

SENSATION RADIANCE. (New.) Winner of the highest award in the '48 All-American trials. Deep rose petals overlaid with large, well-defined zone of rich crimson. Pkt. 10c.

GOULD'S EXTRA EARLY. Is the earliest of its kind, growing to a height of about 4 feet and if seeded in the open as soon as the soil is in condition, or transplanted from plants after all danger of frost, Cosmos will bloom from July until frost. White, Pink, Crimson or mixed. Pkt. 10c.

SENSATION DAZZLER. Large 3 to 5-inch blooms on long stems. Flowers a very rich shade of deep velvety crimson maroon. Fine for cutting. Pkt. 10c.



Cosmos Sensation

A beautiful blend, containing crested and fluted type flowers. Pkt. 15c.

ORANGE FLARE. The long stemmed flowers of bright vivid orange are freely borne on 2 to 3-foot well-shaped plants. If started indoors plants will flower in 60 to 70 days after setting out. Pkt. 10c.

ORANGE RUFFLES. (Semi-double.) Vivid rich orange butterfly-like blooms, very free flowering. Pkt. 10c.

YELLOW FLARE. Similar to Orange Flare except color, which is a rich golden yellow. Pkt. 10c.

EXTRA EARLY DOUBLE CRESTED. Grow to a height of about three feet, bearing beautiful flowers on long stems. They bloom in seventy days from seed when sown in the garden, and will continue until frost. Crimson, pink, white or mixed. Pkt. 15c.

Dahlia Seed Wonderful blooms are obtained the first season if seeds are started indoors and transplanted out about May 15th to 20th.

Some of the seeds may come up in a few days, while others may not for months. Height, 18 to 36 inches.

SINGLE OR DOUBLE mixed. Pkt. 15c.

UNWINS DWARF GIANT FLOWERED. mixed. Pkt. 15c.

COLTNESS HYBRIDS. Very dwarf, for bedding. Pkt. 15c.



Unwins Dahlias

Cypress Vine A popular annual climber. It has a delicate fern-like foliage and produces a mass of beautiful star-shaped flowers. Grows 10 to 15 feet a season. Mixed. Pkt. 15c.

Dianthus or Pinks



Dianthus Chinensis

The double varieties are nearly as nice as Carnations for cutting. The annual varieties may be sown in the open when danger from frost is past and will bloom from early summer until frost. 12 to 15 inches high.

CHINENSIS (China Pinks). Large, double flowers in mixed colors. Pkt. 10c.

HEDDEWIGI. Large single flowers. Mixed colors. Pkt. 10c.

HEDDEWIGI. Large double flowers, mixed colors. Pkt. 10c.

PLUMARIUS (Grass or Clove Pinks). Double, semi-hardy. Mixed. Pkt. 15c.

PLUMARIUS. Single mixed. Pkt. 15c.

DOUBLE ANNUALS. Mixed colors. Pkt. 10c.

SINGLE ANNUALS. Mixed colors. Pkt. 10c.

HARDY GARDEN PINKS. Will come up year after year if winters are not too severe. Mixed colors. Pkt. 15c.

WESTWOOD BEAUTY. Color ranges from fiery red to deep velvety red, some lighter. Grows 10-15 in. high. Pkt. 10c.

Rock Garden Pinks Suitable for rockery or any other hot, dry spot.

DELTOIDES (Maiden Pink). A beautiful little plant, bearing a profusion of small crimson flowers during June and July. 6 inches high. Pkt. 15c.

CAESIUS (Cheddar Pink). Very compact in growth, rose colored fragrant flowers in May. 6 inches high. Pkt. 10c.



Didiscus Coeruleus

Didiscus Coeruleus

(Blue Lace Flower). Attractive light blue or lavender flower produced on long stems. Very fine for cut flowers, and a continuous bloomer. A lovely plant, 24 to 30 inches high. Pkt. 10c.

Dimorphotheca (African Daisy). A rare and extremely showy annual Daisy. The plants grow about 15 inches high producing an abundance of daisy-like flowers, the greater part of the summer and fall.

AURANTIACA (Orange). Blossoms a unique rich orange gold. Pkt. 10c.

AURANTIACA MIXED. They vary in color from white to red, and various tints of yellow, orange and salmon. Pkt. 10c.

SALMON BEAUTY. Soft salmon pink. Pkt. 10c.

WHITE BEAUTY. Flowers large, many zoned around dark centers. Pkt. 10c.



Dimorphotheca Aurantiaca

FLOWERING PLANTS

During May and June we offer seedling flowering plants in the most popular varieties. Weather conditions determine just how early plants are ready, but the plant season usually begins the forepart of May and extends well into June.

Dolichos (Hyacinth Bean). A rapid growing and free blooming annual climber. Very ornamental for covering trellises, arbors and porches. Makes a very beautiful combination when interplanted with scarlet runner beans. Grows about 10 feet a season. Mixed colors. Pkt. 10c.

Eschscholtzia

—See California Poppy.

Everlastings A get-acquainted collection of selected everlasting flowers. 1 to 4 feet tall. Mixed. Pkt. 10c.

Four O'Clocks (Marvel of Peru). A popular old garden favorite, growing to a height of about 2 feet. Forms small tree-like bushes about 1½ feet through, which are covered with Morning Glory-like flowers of white, yellow, pink, orange and red, from July to October. Make an attractive hedge. Tall mixed. Pkt. 10c.

Add plant food sparingly when starting plants from seed. As plants develop for setting out you can increase the amount of fertilizer to get super blooms.

Gaillardia

(Blanket Flower). Very beautiful plant and remarkable for the profusion, size and brilliancy of its flowers, blooming from early summer until frost. Fine for cut flowers. 12 to 18 inches high. Single or double mixed. Pkt. 10c.

INDIAN CHIEF. Single, bronzy red. Pkt. 10c.



Gaillardia Double

Geranium Seed may be started indoors early in the year and will produce blooming plants the same summer. Choice varieties. Mixed. Pkt. 15c.

Gilia These delightful flowers are rapid growers and fine for cut flowers.

CAPITATA (Queen Anne's Thimbles). Charming and attractive bushy plants of erect habit and fine feathery foliage, blooming all summer. May be dried and used as an everlasting. Lavender. 1½ to 2½ feet tall. Pkt. 10c.

MICRANTHA FAIRY STARS. Tiny daisy-like flowers in rose, pink, orange, yellow, cerise and cream. Plants 6 to 8 inches high. Mixed colors. Pkt. 10c.

Globe Amaranth (Gomphrena). An attractive everlasting that produces an abundance of clover-like blossoms in many attractive colors. Flowers can be dried for winter bouquets. 15 to 18 inches high. Mixed. Pkt. 10c.

GLOBOSA DWARF PURPLE. Uniform ball-shaped plants 6 inches tall. Long blooming. Pkt. 10c.

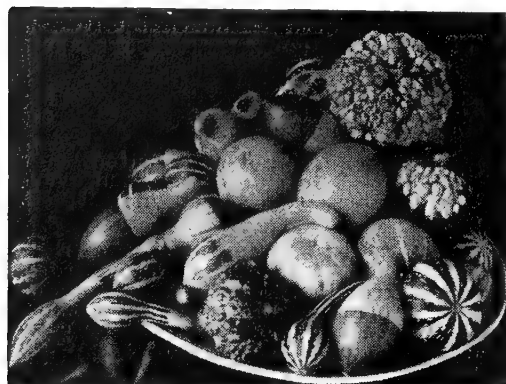
Godetia An attractive annual which does best in poor soil and partly shaded. The flowers are of satiny texture in many colors, blooms resembling single Hollyhocks, flowering from June to October.

TALL. 18 to 24 inches. Mixed colors. Pkt. 10c.

DWARF. 10 inches. Mixed colors. Pkt. 10c.

SYBIL SHERWOOD. A gorgeous salmon pink, softened by an edging of white. 20 inches high. Pkt. 10c.

Gourds (Ornamental). Gourds mature and ripen better if trained over fences or trellis. Sow seed in hills 3 feet apart and allow 3 plants to grow in each hill. Watering during flowering period will cause dropping of flowers and buds, and consequent loss of Gourds. Do not harvest Gourds until stem becomes brown and pressure with the fingernail cannot dent the shell of the Gourd. After picking, Gourds should be hung in any airy, dry place until thoroughly cured. Large sorts mixed, small sorts mixed, or large and small sorts mixed. Pkt. 10c.



Ornamental Gourds

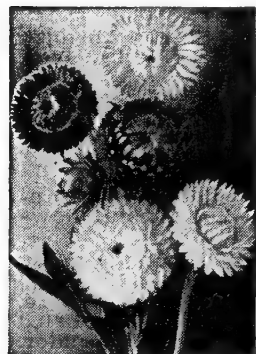
Gypsophila (Baby's Breath). Its graceful panicles of dainty blossoms and feathery foliage are unequalled for making up bouquets. Sow at intervals during the summer for continuous blooming. 18 to 24 inches high. White, Pink, Carmine. Mixed. Pkt. 10c. White, ½ oz., 20c; 1 oz., 35c.

Helianthus (Sunflower). Remarkable for the size and brilliancy of the flowers which are very useful for cut flowers. Effective in forming background of large beds or borders and for distant effect.

SUN GOLD. Double, large flowers, brilliant golden yellow. 4-5 feet. Pkt. 10c.

TALL RED. 5 feet. Single. Pkt. 10c.

STELLA. 5 feet. Miniature flowered, pure golden yellow. Pkt. 10c.



Helichrysum

Helichrysum

(Straw Flower).

Pretty Everlasting flowers in beautiful colors, many soft and artistic shades. Splendid for winter bouquets. To preserve them, cut the flowers before they are fully expanded and hang heads down in a dry place. Grow 15 to 24 inches high. Mixed colors. Pkt. 10c.

Heliotropium (Heliotrope). A splendid bedding plant about 18 inches high. Its delightful perfume makes it most desirable for bouquets. Start indoors or plant seed in open in May. Makes a fine house plant for winter. Colors, various shades of lavender. Pkt. 15c.

Heterophylla (Mex. Fire Plant). Resembling in habit and color the hothouse Poinsettia. About mid-summer the center top leaves of each branch turn orange scarlet, presenting a striking appearance. Is of branching bush-like form. 2 to 3 feet high. Pkt. 10c.

Hunnemannia (Giant Yellow Tulip Poppy or Bush Eschscholtzia). The best poppy for cut flowers. Produces an abundance of brilliant yellow tulip-shaped flowers from July until frost. 15 to 20 inches high. Pkt. 10c.

SUNLITE. A semi-double poppy of bright canary yellow, on a bush of light gray green. Plants 2 feet. Pkt. 10c.

Hollyhocks (Annual). Blooms the first year from seed, when sown in April or May. Height 4 to 5 feet. Semi-double or single, mixed. Pkt. 10c.

INDIAN SPRING. Blooms in five months from seed. Secondary blooms develop in side shoots after main flowering stem is cut away, the same season. Has semi-double to double-pink fringed flowers on 4-5 foot plants. Pkt. 10c.

INDIAN SUMMER. Similar to the perennial Chaters Hollyhock but blooms the first season from seed. Mixed Colors. Pkt. 15c.

Ice Plant Dwarf trailing plant, prized for its singular icy-like foliage. The white and pink flowers and leaves appear to glisten with dew or crystal beads. Likes dry, sunny situation. About 6 inches tall. **CRYSTALLINUM.** Pkt. 10c.



Ipomoea

(Morning Glory). Plant in a dry, sandy location and never apply fertilizer. Do not sow outdoors until ground is thoroughly warmed.

HEAVENLY BLUE IMPROVED. Flowers early and remain open until late in the afternoon. Color is a deep intense blue, shading lighter toward center. Pkt., 10c; ½ oz., 20c; ¼ oz., 35c.

DARLING. Brilliant rich wine red, snowy-white throat make the large flowers stand out immediately. Climbs and blooms freely. Pkt. 15c.

BLUE MOUND. Dwarf compact plants growing only to a height of about 12 inches. The color and size of bloom are the same as Heavenly Blue. Ideal for borders and potting. Pkt. 10c.

BLUE STAR. Clear sky blue marked by five deeper blue mid-ribs to form an attractive star. Pkt. 10c.

PEARLY GATES. White with a creamy shading in the throat. Pkt. 10c.

SCARLETT O'HARA. Flowers are a rich wine red, blooming 65 days after seed is sown. Flowers are not as large as Heavenly Blue. Pkt. 10c.

CLARK'S EARLIEST HEAVENLY BLUE MORNING GLORY. Flower sky blue, shading golden yellow in throat. Bloom early. Pkt., 10c; ½ oz., 20c; ¼ oz., 35c.

CORNELL. Large flowered intense carnelian red with pure white border. Pkt. 10c.

DOUBLE ROSE MARIE. Flowers are a beautiful deep rose of double and semi-double form. A novelty. Pkt. 10c.

NOCTIFLORA (Moonflower). Covered with large white flowers every evening and cloudy days. Seed should be started in March or April indoors. Pkt. 10c.

IMPERIALIS MORNING GLORY. The flowers are snow-white to purple with all the intermediate shades. Pkt. 10c.

TALL MIXED MORNING GLORY. Flowers are very beautiful. Pkt. 10c.

Kochia (Summer Cypress or Mex. Fire Bush).

Sow thinly in spring. Soon forms a cypress-like hedge of lively green and of perfect symmetry, 2 to 3 feet high. The color of entire plant changes to a deep red in autumn. Pkt. 10c.

Lace Flower (See Didiscus).

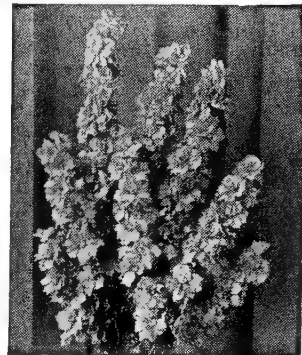


Kochia

Lantana A tender perennial plant with Verbena-like fragrant flowers in shades of white, red, orange and yellow. Grow in pots and set out in summer. Blooms until late in the fall. 15 to 20 inches high. Hybrids mixed. Pkt. 10c.

Lavatera (Annual Mallow). Showy plants, 2½ feet in height, producing large cup-shaped flowers from midsummer until frost. Mixed colors. Pkt. 10c.

Larkspur These annual Larkspur are among our showiest garden flowers. The flower spikes of various shades are among our finest for cut flowers. Spring-sown seed will produce flowers from July until frost. Larkspur thrive best in a sunny situation. Height, 3 feet.



*Larkspur
Giant Imperial*

GIANT IMPERIAL. Azure Blue, Carmine Rose, Dark Blue, Deep Rose on Salmon, Lilac, Rose Pink, Salmon Rose, Soft Pink Shaded Salmon, Scarlet, White. Each above or mixed colors. Pkt. 10c.

LILAC KING or PINK KING. Pkt. 10c.

ROSAMOND (Double Stock Flowered). A pure bright rose, holding the color until out of flower. Pkt. 10c.

REGAL STRAIN. Long spikes of huge florets. Early. Finest Mixed. Pkt., 15c.

SUPER MAJESTIC ROSE PINK. Tremendous vigor and height of 5-foot blooms distinguish this new Larkspur. Has double rose pink flowers. Pkt. 10c.

Leptosyne A golden yellow Daisy, blooming six weeks from date of sowing. Excellent for cutting. 12 inches. **STILLMANI.** Pkt. 10c.

Linaria (Miniature Snaps). The free flowering plants are very compact, about 8 inches in height, covered with a mass of dainty Snapdragon-like flowers in pastel shades. **FAIRY BOUQUET.** Pkt. 10c.

NORTHERN LIGHTS. Brilliant new colors, blooms early, grows 15 inches tall. Best planted in masses. Pkt. 10c.

Linum (Crimson Flax). One of the most effective and showy bedding plants, growing to a height of 18 to 24 inches. Flowers are a brilliant scarlet. Bloom from May until October by successive sowing. Pkt. 10c.

Lobelia Charming little ball-shaped plants covered with a profusion of deep blue flowers. An excellent plant for edging or bedding.

CRYSTAL PALACE COMPACTA. Fine for pot culture. 4 in. Pkt. 10c.

MRS. CLIBRAN. Deep blue, white eye. Pkt. 10c.

HYBRIDA PENDULA SAPPHIRE. Trailing, deep blue, white eye. Pkt. 10c.

Lupinus (Lupine). The long and graceful spikes of pea-shaped flowers make fine cut flowers. The glossy foliage makes a most charming background for the flower spikes. Blooms during July and August. Plant in partly shaded place. Height about 2 feet. **HARTWEGI.** Mixed colors. Pkt. 10c.

Fragrant Flowers

Alyssum.	Scabiosa.
Candytuft.	Stocks.
Carnation.	Sweet Peas.
Dianthus.	Sweet Sultan.
Heliotrope.	Sweet William.
Matthiola.	Valeriana.
Mignonette.	Violet.
Nasturtiums.	Wallflower.
Nicotiana.	

Marigold, Tall Varieties These old garden favorites are of easiest culture. The French and Dwarf grow 12 to 18 inches high, while the African and other tall varieties grow 2 to 4 feet.

RED HEAD. Plants dwarf 1 foot tall, bushy, free flowering, with color a rich mahogany-red, changing to bronze and gold. Showy in beds or borders. A '48 All-America. Pkt. 10c.

REAL GOLD. Carnation-flowered with giant blooms $4\frac{1}{2}$ inches and more across, very deep, very double golden-orange illumined with yellow. Plants grow 20 to 25 inches tall—ideal for beds and borders. Pkt. 10c.

FLASH. Earliest of all marigolds, ranging in color from vivid red through bronze with few yellows. Plants bloom profusely till frost. In cool weather the velvety-red predominates, in hot weather the tangerine shades prevail. Pkt. 10c.

MAMMOTH MUM. The rich lemon-yellow 4 to 5-inch flowers resemble the large double chrysanthemums we admire so much in the fall. Pkt. 10c.

BURPEE GOLD. Carnation-like flowers $3\frac{1}{2}$ to 4 inches across, of bright orange color. Petals loosely arranged. Plants grow $2\frac{1}{2}$ feet tall; foliage odorless. Pkt. 10c.

LIMELIGHT. Chrysanthemum flowered. Color pale primrose yellow or deep cream. Flowers bloom early, $1\frac{1}{2}$ to $2\frac{1}{2}$ inches across, abundant for 8 to 9 weeks. Pkt. 10c.

FERDINAND. The single blooms have a crested center of golden yellow surrounded by a single row of mahogany-red petals. Blooms are about $1\frac{1}{2}$ inches wide, plants 20 inches tall, upright and semi-compact. Does not have the strong Marigold odor. Pkt. 10c.

MISSION GIANT GOLDSMITH. The golden orange flowers of the Chrysanthemum type are base branching with good stems for cutting. Blooms are double, early and free-blooming on strong bushy plants, 2 to 4 feet high. Pkt. 10c.

MISSION GIANT YELLOWSTONE. Bright rich clear yellow counterpart to Goldsmith. Blooms radiate an unbelievable brightness. Pkt. 10c.

GIGANTEA SUNSET GIANTS. Foliage and flowers have a definitely sweet fragrance. Flowers will average 5 inches, plants usually from $3\frac{1}{2}$ to 4 feet high. Colors range from orange, yellow and primrose. Mixed. Pkt. 10c.



Marigold Crown of Gold

COLLAR-ETTECROWN OF GOLD.

Odorless foliage. Fragrant flowers of orange, bloom early. Plant in full bloom has the appearance of solid orange on top with green base. Plants grow 2 feet tall. Pkt. 10c.

YELLOW SUPREME. A companion to the popular Guinea Gold. Flowers are a creamy lemon-yellow and somewhat larger than Guinea Gold; plants 2 to $2\frac{1}{2}$ feet. Pkt. 10c.

AFRICAN (Tall). Plants grow $2\frac{1}{2}$ feet high and produce an abundance of large double flowers in great profusion of glowing colors from mid-summer on. Do best in a sunny situation. Orange, Lemon, or Mixed. Pkt. 10c.

GUINEA GOLD. A Carnation flowered semi-double flowers. Plant grows 2 to $2\frac{1}{2}$ feet high on which are produced 30 to 40 flowers, 2 to $2\frac{1}{4}$ inches across, of a brilliant shade of orange, flushed with gold. Practically odorless. Pkt. 10c.



Guinea Gold

GLITTERS. New, soft golden yellow Chrysanthemum flowers, 3 inches across, bushy and erect plants $2\frac{1}{2}$ feet high. Bloom early and continuously till frost. Pkt. 15c.

SUNNY. A new dwarf single French with bright yellow flowers, 2 inches across, with wavy edges. Plants 15 inches tall, 16 inches wide. Pkt. 15c.

Marigold, Dwarf Varieties

SUNKIST. Is an orange sport from Butterball. Dwarf plants, 6 to 10 inches high, compact, very early, continuous bloomer. Pkt. 10c.



Marigold, Dwarf Butterball

DWARF DOUBLE BUTTERBALL. Attractive, very compact, scabious flowering, canary yellow, only 6 to 10 inches tall. Pkt. 10c.

DWARF ROYAL SCOT. All Double. Of dwarf French type, 12 to 15 inches tall, large and rather flat flowers, brown and gold irregularly striped. Pkt. 10c.

NAUGHTY MARIETTA. A dwarf single Marigold about 12 inches tall covered with 2 to $2\frac{1}{2}$ -inch golden yellow flowers, mahogany at base. Pkt. 10c.

HAPPINESS. Dwarf chrysanthemum flowered. Bright golden yellow, early. Pkt. 10c.

FRENCH MARIGOLD. Compact plants 10 to 15 inches high, very attractive, covered with hundreds of small bright flowers of various colors. Few annuals are as effective or flower so long. Double. Mixed. Pkt. 10c.

DWARF FRENCH DOUBLE MELODY. Grows 12 to 15 inches high and literally covered with golden yellow Harmony type flowers. Pkt. 10c.

SPRY. Extra dwarf, double, compact, fine for edging. About 9 inches tall with light orange crested center and maroon outer petals. Pkt. 10c.

SCARLET GLOW. Flowers are a dwarf double, of a bronzy red color, nearly 2 inches across. Plants compact and about 12 inches tall. Pkt. 10c.

YELLOW PYGMY. Compact and ball-shaped plant, 8 inches tall, freely producing small 1-inch double Lilliput flowers of lemon-yellow. Pkt. 10c.

DWARF FRENCH DOUBLE HARMONY. A charming plant. The scabiosa-like deep orange center petals is flanked by broad velvety dark maroon-brown outer petals. Plant about 12 inches high. Pkt. 10c.

MONARCH STRAIN. (Dwarf French Double). Of compact growth, flowers in combinations of orange, bronze, yellow and mahogany. Pkt. 10c.

LEGION OF HONOR. A single flowering Marigold, compact bushes 9 inches high. Flowers golden yellow, with maroon at base of each petal. Blooms from June until frost. 10 in. Pkt. 10c.

ROBERT BEIST. Attractive dwarf, double mahogany-red flowers. Plant grows about 12 inches high. Pkt. 10c.

Marvel of Peru—See Four O'Clocks

Matricaria Freely branching flower stems are literally covered with very double flowers, resembling a button Chrysanthemum.

CAPENSIS (Feverfew). Small, double white flowers grown on plants 2 feet tall. Fine for cutting. Pkt. 10c.

Matthiola Bicornis (Evening Scented Stock). An old-fashioned little annual, with a delightful perfume which its purplish lilac flowers give out in the evening. Grows 12 inches high. Pkt. 10c.

Mignonette Reseda A well-known fragrant plant. Can also be grown indoors, in pots for winter use. Sowings made in April and again in July will keep up a succession of bloom from early summer until frost. Grows 10-16 ins. high.

SWEET SCENTED. The old-fashioned variety with small spikes but the most sweetly scented of all. Pkt. 10c.



Mignonette

SPECIAL MIXTURE LARGE FLOWERING. Pkt. 10c.

Mimulus MOSCHATUS (Musk Plant). Trailing plant for damp shady places. Fine for rockery. Small yellow flowers. 6 inches. Pkt. 25c.

TIGRINUS (Monkey Flower). Dwarf plants 1 foot high, flowers of white, yellow, gold, pink, red and maroon. 12 inches. Pkt. 15c.

Morning Glory—See Ipomoea.



Nasturtium Glean Hybrids

Nasturtiums

The maximum of bloom is produced in dry gravelly or sandy soil. Water freely until plants are established. It is best to pick the blossoms almost daily. Dwarf varieties grow to a height of 12 to 15 inches; the tall, or climbing, 6 to 10 feet.

RELIABLE DWARF MIXED VARIETIES. Pkt., 10c; oz., 20c.

LOBB'S CLIMBING, MIXED COLORS. Pkt., 10c; oz., 20c.

RELIABLE TALL MIXED. Pkt., 10c; oz., 20c.

SEMI-DOUBLE, SWEET SCENTED NASTURTiums

SEMI-DOUBLE DWARF. Sweet scented. Fine for borders and edging. Mahogany, fiery scarlet, golden yellow and finest mixed. Pkt., 10c; oz., 25c.

ORANGE GLEAM. Color is a deep glowing golden orange. Plants are semi-dwarf, bearing the flowers well above the light green foliage on long wiry stems. Pkt., 10c; oz., 25c.

GOLDEN GLEAM. The large, golden-yellow flowers average $2\frac{1}{2}$ to 3 inches across. They are borne on erect stiff stems 6 inches in length. Pkt., 10c; oz., 25c.

MAHOGANY GLEAM. Dark mahogany red. Pkt., 10c; oz., 25c.

SALMON GLEAM. Blooms delicate golden salmon. Pkt., 10c; oz., 25c.

SCARLET GLEAM. The flowers are a fiery orange scarlet, blooms almost 3 inches across, very fragrant. Pkt., 10c; oz., 25c.

GLEAM HYBRIDS. Are a collection of gorgeously colored, semi-double flowers of dazzling beauty in colors of salmon, golden yellow, orange scarlet, cerise, cream yellow, orange crimson, and gold flushed scarlet. Pkt., 10c; oz., 25c.

Everlasting or Straw Flowers

Dry Flowers for Winter Bouquets

Acroclium.	Honesty.
Chinese Lantern.	Physalis.
Globe Amaranth.	Statice.
Helichrysum.	Xeranthemum.

Nemesia These bushy plants grow only 6 to 8 inches high but bear continuously, brilliantly colored flowers of red, orange, crimson, cream, scarlet and rose. Does best in cool situation and partial shade. **COMPACTA**. Mixed colors. Pkt. 15c.

Nemophila (Baby Blue Eyes). A splendid annual of easy culture. Flowers all summer if planted in cool, shaded locations. **INSIGNIS BLUE**. 6 inches. Pkt. 10c.

Nicotiana (Tuberose Flowered Tobacco). Delightfully sweet-scented, tubular flowers, blooming continually from July to October. Grow 2 to 3 feet high. Do well in partly shaded places. **AFFINIS**. Crimson, white or mixed colors. Pkt. 10c.

SENSATION. Compact, unusual shades, fragrant. Mixed. Pkt. 15c.

Nierembergia A most charming plant, 5 to 6 inches tall, with lovely lavender blue flowers, heightened by a touch of yellow in the center. Blooms 15 weeks from seeding, until heavy frost. Likes full sun. **HIP-POMANICA**. Pkt. 25c.

PURPLE ROBE. Flowers are deep blue or violet blue. Pkt. 25c.

Nigella (Love-in-a-Mist). A compact free-flowering plant of feathery foliage, with curious looking flowers and seed pods of easy culture, growing well in any garden soil. It is a hardy annual, about 15 to 20 inches high. Flowers are light blue or white. Blooms all summer. **Mixed**. Pkt. 10c.

Oenothera (Evening Primrose). Plant 1 to 2 feet high. Produce continuously large single Poppy-like flowers of rose, yellow, white, etc. Blossoms open towards evening and last well into the next day. Likes a sunny location.

LAMARCKIANA. Yellow, large flowered, very showy. 1 to 2 feet. Blooms June to August. Pkt. 10c.

Pansies Plant in a shady situation and give plenty of moisture and fertilizer. Pick faded blooms so they do not go to seed. Plants about 6 inches high.



Engelmann's Giant
an annual and seed sown every year.

ENGELMANN'S GIANT. This early flowering giant strain contains a great variety of both dark and light shades; all of the five blotched type. Pkt. 25c.

OREGON GIANTS. Long stemmed giant flowers, petals gracefully waved at edge. Good range of choice colors, especially rich in blue, and yellow shades. Pkt. 25c.

SWISS GIANTS. The flowers are very large, borne on long stems, from early spring until frost, in a great variety of colors. Finest mixed. Pkt. 25c.

MAPLE LEAF GIANTS. The leaves are of giant size and the flowers up to 4 inches across, in a wide range of colors. Mixed. Pkt. 25c.

GOULD'S RELIABLE MIXTURE. Flowers of large size, good form and substance and pleasing range of colors. Pkt. 15c.

Phacelia (California Blue Bell). An attractive and easily grown annual about 3 inches high loosely branching with rich blue flowers. Blooms very early. Very effective for edgings, also a fine pot-plant. **CAMPANULARIA**. Pkt. 10c.

PETUNIAS

The Petunia is peerless among annuals for effective summer bedding or window boxes. It is of easy culture. Blossoms early and until heavy frost.

Double

MRS. DWIGHT D. EISENHOWER. The lovely double, soft mid-salmon colored flowers measure about 2 3/4 inches across. Plants about 16 inches tall. Pkt. (100 seeds), \$1.50.

ROSE MARIE. The rose-pink double flowers grow 3 inches and more across. Plants about 18 inches tall and 30 inches across. Pkt. (100 seeds), \$1.00.

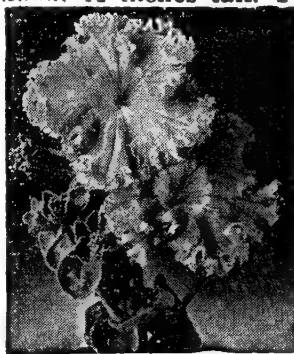
COLOSSAL SHADES OF ROSE. The color ranges from light and salmon pink to mostly deep pinks and purplish rose. Plants about 18 in. tall. Flowers 4 to 5 in. across. Pkt. \$1.00.

ALL-DOUBLE AMERICA. A Petunia of mauve pink color. Medium sized blooms. Pkt. 50c.

DOUBLE GIANTS OF CALIFORNIA. A super strain of Giant Double ruffled and fringed mixed. Pkt. 50c.

Fancy Types

BURGUNDY (Grandiflora Single Plain Edged). Showy large flowers, 3 1/2 inches across, of rich wine red, contrasting with white throat. Plants about 12 inches tall. Pkt. 25c.



Single Fringed

FRINGED DAINY LADY

The first yellow Petunia. Flowers are of medium size and daintily fringed. Plants 12 in. high. Pkt. 50c.

ELK'S PRIDE. Dwarf plants, 12 inches high, with deep velvety purple flowers. Pkt. 50c.

RUFFLED MARTHA WASHINGTON. The plants are about 9 inches tall, blush pink at the edges, deepening to dark violet in the throat. Pkt. 25c.

BALLERINA. Honorable Mention 1952 A. A. S. Large flowered, fringed, compact habit. Fine for garden or pot culture. Color bright deep rose. Pkt. 50c.

SNOWSTORM. Glistening white shading yellow in throat. Dwarf, large flowers. Pkt. 50c.

THEODOSIA. Large fringed flowers. Rose pink, golden throat. Pkt. 50c.

WHITE BEAUTY. Large fringed flowers, pure white. Pkt. 50c.

WHITE CLOUD. Large flowering, plain edged; pure white, dwarf, compact, 12 inches tall. Pkt. 50c.

SINGLE FRINGED. Ruffled edge, 14 inches. Mixed colors. Pkt. 85c.

GIANTS OF CALIFORNIA. Flowers are large, edges fringed, petals fluted and crinkled in range of colors. Height, 12 in. Mixed colors. Pkt. 25c.

GIANTS OF CALIFORNIA GLAMOUR. It has a large salmon-rose flower with brown veining on white in the throat; a continuous bloomer. Pkt. 25c.

DWARF GIANT (Ramona strain). Flowers beautifully ruffled and frilled. Height 10 in. Mixed colors. Pkt. 25c.

Balcony Petunias

A splendid single flowering type for window boxes, vases, hanging baskets.

BLACK PRINCE. Deep velvety red. Pkt. 15c.

DEEP BLUE. Velvety violet blue. Pkt. 15c.

RED. A dark crimson. Pkt. 15c.

ROSE. Select strain of rose. Pkt. 15c.
WHITE. One of the finest. Pkt. 15c.
MIXED. of the foregoing five colors. Pkt. 15c.

Dwarf Bedding Petunias

Dwarf, erect growing, suitable for massing, borders or window boxes.

FIRE CHIEF. The first Gold Medal Award in 11 years and the 1950 All-America Sweepstakes Winner. A dwarf plant and heavy bloomer of brilliant scarlet red flowers. Pkt. 25c.

SILVER MEDAL. Blooms open salmon-cerise with orange undertone changing to rich salmon. Plants grow 1 foot tall with a spread of 18 inches. First in the 1949 All-America. Pkt. 50c.

BLUE. Mid-blue. Compact. Pkt. 10c.

BRIGHT EYES. Plants about 10 inches high, covered with rosy pink flowers, with white towards throat. Pkt. 15c.

CELESTIAL ROSE. Similar to Rose of Heaven but color is deeper rose. This is our most popular Petunia. A lovely plant. Pkt. 10c.

CHEERFUL. A clear, light pink with a slight suffusion of salmon. Plants grow about a foot high. Pkt. 15c.

CREAM STAR. Flowers are a soft, creamy white, and with a star of cream coloring on flowers. Pkt. 10c.

ENGLISH VIOLET. Continuous bloomer of 2-inch rosy mauve-violet flowers. Plants 12 to 15 inches. Pkt. 10c.

FIRST LADY. Uniform, dwarf, large flowers of beautiful light or blush pink. Compact, 12-inch plants. Pkt. 15c.

GLOW. A dwarf, compact plant of bright, rose-red and lighter throat. Free flowering all season. Pkt. 15c.

IGLOO. Plants 12 to 15 inches tall. Has 1 1/2-inch, small creamy white flowers with yellowish throats. Pkt. 10c.

PEACH RED. It has a unique color of rich salmon cerise. Plants grow to about 15 inches high. Pkt. 15c.

ROSE GEM. Plant 5 to 6 inches high and 8 inches wide. Deep rich rose flowers. Pkt. 15c.

ROSE OF HEAVEN. A select strain of the lovely and popular brilliant rose pink. A heavy bloomer. Pkt. 10c.

ROSY MORN. An improved selection of this clear pink with white throat. Very free bloomer. Pkt. 10c.

SNOW QUEEN. Pure white. Pkt. 10c.

TWINKLES. Brilliant rose, starred white. Pkt. 10c.

VELVET BALL. Flaming velvet. Mahogany red flowers with a violet hue. Plants compact, bloom long. Pkt. 25c.

VIOLACEA. Deep velvety purple. Pkt. 10c.

MIXED COLORS. Pkt. 10c.

FINEST MIXTURE. New, well balanced color range. Pkt. 15c.

Hybrid Bedding Petunias

Plants are small flowered and extremely free blooming. Suitable for bedding, borders or window boxes.

BLUE. Violet-blue. Pkt. 10c.

FLAMING VELVET. Color, a rich, deep, velvety crimson. A brilliant Petunia. Height 15 inches. Pkt. 10c.

GEN. DODDS. Blood-red. Pkt. 10c.

HOWARD'S STAR. Reddish-purple, white star. Pkt. 10c.

PINK SENSATION. This new introduction forms large flowers of profuse blooming habits over a long season. Height, 2 feet. Pkt. 50c.

RADIANCE. A rich rose or cerise with brown veined yellowish throat, blooming very early. Pkt. 10c.

ROSE KING IMPROVED. Clear rich rose, light golden throat. Pkt. 10c.

TOPAZ ROSE. Fiery rose, suffused gold, throat topaz. Pkt. 10c.

VIOLACEA. Deep violet. Pkt. 10c.

WHITE KING. Pure white. Pkt. 10c.

MIXED COLORS. Pkt. 10c.

DE LUXE MIXTURE of medium flowered varieties. About 18 in. Pkt. 10c.

Phlox, Annual DRUMMONDI GIGANTEA. A strain of Phlox Drummondii with florets 1 1/4 to 1 1/2 inches in diameter in heavy clusters. The habit is erect and uniform, growing 9 to 12 inches high.

GIGANTEA ART SHADES. Pkt. 15c.

GIGANTEA RED GLORY. Pkt. 15c.

GIGANTEA MIXED. Pkt. 15c.



Phlox Drummondii

high. Choice mixed. Pkt. 15c.

GLOBE. 1952 A. A. S. Dwarf, very compact and unique globe shaped. 5 to 8 in. high, 8 to 12 in. wide. Makes domes of practically solid color, mostly white, dark red, rose red, lavender pink. Fine for border. Mixed, Pkt. 25c.

NANA COMPACTA DWARF. Fine for bedding or borders. Covered with flowers all summer and fall. Grows only 6 to 8 inches high. Mixed, all colors. Pkt. 15c.

Poppies Sow early in the spring where the plants are to remain, as they will not bear transplanting. Thin out plants to 4 to 6 inches apart. Sow at intervals to keep up a succession of bloom. As cut flowers they are short lived, but if their stems are dipped in boiling water for just one moment when cutting they last much longer.

GOULD'S RELIABLE SINGLE SHIRLEY. A strain ranging from snow-white through tints of pink, rose, crimson, blood-red and salmon. Height 30 in. Mixed colors. Pkt. 10c.

GOULD'S RELIABLE DOUBLE SHIRLEY. Flowers are double and semi-double. Same height and colors as the Single Shirley. Mixed colors. Pkt. 10c.

AMERICAN LEGION. Flowers bright orange-scarlet. Plants grow about 2 1/2 feet high. Pkt. 10c.

TULIP POPPY (Glaucum). Large tulip shaped flowers of dazzling scarlet. Grow 20 inches high. Pkt. 10c.

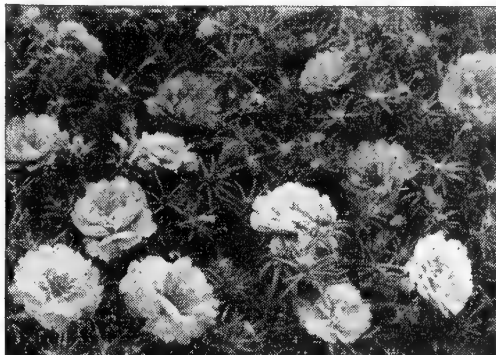
Queen Anne's Lace Flower An old favorite of our grandparents. Plants grow upright 2 to 2 1/2 feet high, heavily branched, with white flowers spread out umbrella-like from each branch end. Easily grown and cut flowers last long in water. Pkt. 10c.

Flowers for Shade or Semi-shade

Achillea.	Lobelia.
Alyssum.	Lupine.
Anchusa.	Matricaria.
Annual Phlox.	Myosotis.
Aquilegia.	Nemesia.
Asters.	Nicotiana.
Bellis Daisies.	Pansy.
Canterbury Bells.	Platycodon.
Centaurea.	Salvia.
Clarkia.	Schizanthus.
Coreopsis.	Snapdragon.
Delphinium.	Sweet Alyssum.
Digitalis.	Sweet Sultan.
Godetia.	Sweet William.
Heuchera.	Viola.

Ricinus (See Castor Bean).

Portulaca (Moss Rose). A low growing annual with thick stems and foliage; bearing brilliant colored cup shaped flowers during the entire summer. This plant is suitable for rockeries and banks and will grow and bloom profusely in a dry hot situation where other plants would fail. Plants about 6 inches high.



Portulaca or Moss Rose

SINGLE MIXED colors. Pkt. 10c.

DOUBLE MIXED colors. Pkt. 10c.

SINGLE AND DOUBLE MIXED. Pkt. 10c.

GRANDIFLORA, DOUBLE. Flowers are like little roses. Finest mixed. Pkt. 15c.

GRANDIFLORA, SINGLE, mixed. Pkt. 15c.

PREMIUM. all double mixed. Pkt. 25c.

SINGLE JEWEL. Brilliant carmine, extremely large, free flowering. Pkt. 15c.

Rudbeckia (Cone Flower). Attractive annual of compact growth. Excellent for cutting. Golden yellow flowers with brown markings, on long stems. Grows 2 to 3 feet high. Blooms June to August.

STARLIGHT. The branching plants about 3 feet tall. Flowers fully double to single, colors, primrose yellow to mahogany and bicolors with mahogany centers; on nice long stems. Pkt. 10c.



Salpiglossis

veined in contrasting colors. Pkt. 10c.

DWARF LARGE FLOWERING. A new type, about 12 inches. Plants are bushy and compact and flowers surpass the taller varieties in size and color combinations. Mixed colors. Pkt. 10c.

Salvia (Scarlet Sage). It is especially adapted for a border in front of tall shrubs or in back of dwarf growing plants. Salvia should be started indoors and transplanted to the garden after danger of frost is past.

SPLENDENS. Blooms from August until killed by frosts. The old favorite, producing scarlet flowers in summer and fall. Height about 2 feet. Pkt. 15c.

AMERICA or GLOBE OF FIRE. Brilliant scarlet flowers, 16 inches high, fine for bedding. Uniform in habit, a continuous bloomer. Pkt. 15c.

CLARA BEDMAN or BONFIRE. Grows 2 feet high. Scarlet-red flowers grow erect above the foliage, forming globular bushes. Pkt. 15c.

ZURICH. 12 to 15-inch plants that bloom early. Scarlet-red flowers on dwarf, compact plants. Pkt. 15c.

Sanvitalia (Creeping Zinnia). An annual of dwarf, compact growth; but spreads itself over the soil instead of growing upright. Useful for rockery, edging, beds, baskets or vase. Showy, bright yellow flowers bloom all summer. **PROCUMBENS.** 6 inches. Pkt. 10c.

Scabiosa (Mourning Bride). Commonly known as the Pincushion Plant, growing to a height of 20 to 30 inches. The flower stems are long and the blossoms keep well in water. When picked off regularly they will bloom all through the summer.

LARGE TALL DOUBLE. 2 1/2 feet high.

Azure Blue. Reddish Black.

Cherry Red. Rose.

Fiery Scarlet. Rosy Lilac.

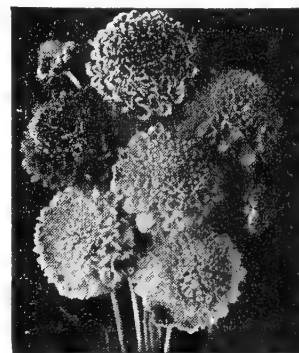
Mid-blue. Salmon Rose.

Pure White. Yellow.

Any of above or Mixed Colors. Pkt. 10c.

PEACE. The double white flowers are semi-tall. Flowers nearly 2 inches across on 6 to 8-inch stems. Pkt. 10c.

HEAVENLY BLUE. A distinct and lovely azure-blue, very early and free flowering. Plants 18 inches. Pkt. 10c.



Scabiosa Tall Double

BLUE COCKADE. Outstanding. The deep azure blue flowers are almost conical in shape. Pkt. 10c.

GIANT FLOWERED HYBRIDS MIXED. Large ball-shaped flowers, unusual colors. About 2 1/2 feet tall. Pkt. 10c.

TOM THUMB MIXED. Miniature plants, 6 to 8 inches high. Pkt. 10c.

NEW SALMON BEAUTY. Pure salmon color. Pkt. 10c.

ROSETTE. A beautiful shade of deep rose suffused with salmon. Pkt. 10c.

BLUE MOON. Has no pincushion center but flowers are literally double, color a deep lavender blue. Pkt. 10c.

CORAL MOON. Full range of salmon-pink from light to deep shades. Pkt. 15c.

Rock Garden Mixture

This is a fine variety of annual flowering plants suitable for Rock Gardens. A select mixture. Pkt. 10c.

Schizanthus (Butterfly Flower). A charming annual which yields an abundance of blooms on delicate fern-like stems from July to September. Very desirable for cut flowers and a nice house plant. Height 6 to 15 inches.

EXCELSIOR COMPACTUS. Finest Mixed. Semi-dwarf, free flowering. 6 inches. Pkt. 15c.

DR. BADGERS IMPROVED GIANT FLOWERED HYBRIDS. A super strain of large flowers in a brilliant range of colors, from light pink to deep purple. Pkt. 15c.

House Plants from Seed

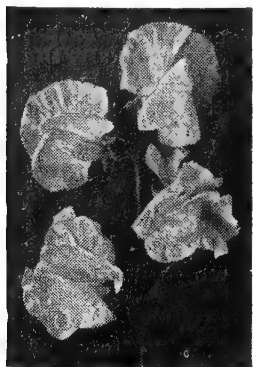
Agathe.	Mignonette.	Schizanthus.
Carnation.	Mimulus.	Stocks.
Heliotrope.	Nemesia.	Tagetes.
Lantana.	Passiflora.	Wallflower.
Marigold.	Phacelia.	

Snapdragons See Antirrhinum.

Statice (Everlasting). A very charming flower in the garden which may be cut and dried for winter bouquet. 3 ft. Mixed colors. Pkt. 10c.

RUSSIAN, SUWOROWII or RAT TAIL. 30 inches. Flowers bright rose color. Pkt. 10c.

Stocks (Early Giant Imperial). One of the most highly prized of our annuals. Our select strain produces a high percentage of double flowers. Suitable for pots as well as the garden. The delightful fragrance, free blooming, long lasting character make them invaluable for cut flowers. Flower from July until October. Grow 20 to 30 inches tall. **IMPROVED BISMARCKS.** Mixed colors. Pkt. 10c.



Sweet Peas

Sweet Peas

Sweet Peas are one of the most fascinating flowers of all garden annuals. The blooms, with their long wiry stems, delicate fragrance, and great variety of fascinating shades, have a grace and individuality for table decorations.

How to Grow Fine Sweet Peas

Sweet Peas are of comparatively easy culture, if their requirements are taken into consideration. We can all grow fine Sweet Peas with lovely long stems if we will observe a few simple rules in their culture.

First—Good seed.

Second—Rich soil, deeply dug.

Third—Early sowing.

Fourth—Early staking.

Fifth—Frequent fertilization to insure healthy, rapid, continuous growth.

Sixth—Keep soil loose and porous.

Select an open sunny spot in the richest part of the garden and then apply a thick layer of pulverized sheep or cattle manure 18 inches wide. Remember that Sweet Peas are deep rooting plants so that the soil must be deeply and thoroughly worked. Spade the manure in as deep as the fork will go and turn the soil over three or four times so that the manure becomes thoroughly mixed with it, then level, and your bed is ready for planting. Sow in double rows, that is, open two drills about 8 to 10 inches apart and 4 to 5 inches deep and scatter the seed liberally, but not too thick (about one ounce to 15 running feet), then cover. The support for the plants to climb on is placed in the center of the two rows and should be in place by the time the plants are 2 inches high.

Sweet Peas require sufficient plant food at all times, and you will find that a top dressing of manure, Vigoro or bone meal applied regularly every two weeks and hoed in will help produce strong healthy vines.

Prices on Sweet Peas

All, pkt., 10c; 1 oz., 25c; 2 oz., 45c.

BLUE

Amethyst. Bright clear blue, large.
Capri. Clear silver blue.
Chinese Blue. Rich mid-blue.
Flagship. Deep navy blue.
Ruffled Blue. Mid-blue.

CERISE

Charming. Rose cerise.
Grand Slam. Cerise scarlet.
Ruffled Exquisite. Salmon cerise.

CREAM

Mastercream. Deep cream.
Ruffled Primrose. Deep cream.
What Joy. Deep rich cream.

CRIMSON-SCARLET

Huntsman. Bright scarlet.
Ruffled Crimson. Rich velvety crimson.
The Cardinal. Poppy scarlet.
Welcome. Dazzling scarlet.

LAVENDER-MAUVE

Austin Frederick Imp. Lavender, large.
Chieftain. Pure satiny mauve.
Powerscourt. Lavender, mammoth size.
Ruffled Mauve. Pure mauve.
Ruffled Orchid. Rich lavender rose.

MAROON

Black Diamond. Dark maroon.
Warrior. Deep maroon.

ORANGE

Guinea Gold. Cerise orange.
Torch. Intense orange scarlet.
Golden Wings. Fine orange, large.
Tangerine Improved. Rich orange.
Orange shades of Sweet Peas should be shaded from strong sunshine to retain their rich color.

PICOTEE

Gloria. Cream, picotee edged rose.
Youth. White, edged rose pink.

PINK-ROSE

Aristocrat. Clear pink.
Fluffy Ruffles. Light cream pink.
Miss California. Salmon cream pink.
Pinkie. Rose pink, large.
Ruffled Carmine. Bright carmine rose.
Ruffled Rose. Soft rich rose.

PURPLE

Royal Purple. Rich purple.
Ruffled Purple. Rosy purple.

SALMON

Mary Pickford. Creamy salmon pink.
Melody. Golden salmon pink.
Smiles. Salmon shrimp pink.

WHITE

Avalanche. Glistening white.
Burpee's White. One of the most perfect white Sweet Peas.
Gigantic. Pure white, large.
King White. Pure white, large.
Ruffled White. Extremely ruffled.

GOULD'S RELIABLE MIXTURE. This mixture contains a fine selection of the largest and most attractive named varieties to produce a harmony of colors.

RUFFLED VARIETIES MIXED. Large flowers on long stems.

CUTHBERTSON SPRING FLOWERING. Produce long stout stems and a heavy crop of flowers over a long blooming period. We offer the following colors.

Clear pink.
Cream.
Crimson.
Deep maroon.
Lavender.
Light blue.
Light carmine.

Navy blue.
Rose pink.
Salmon pink.
Scarlet.
White.
Finest mixed.



Inoculate seed with Nitragin. Makes finer, more vigorous and healthier Sweet Peas. Garden size, postpaid 17c.

Sweet William (Annual). The plants are of the same type and habits as of the old perennial kinds, but this annual variety will bloom the first year from seed. The flowers are very similar to the older sorts, having a variety of colors and very fragrant. 15 to 20 inches. Mixed colors. Pkt. 10c.

Tagetes (Single Dwarf Marigolds). Dwarf, compact, bushy annuals of the Marigold family, with beautiful fern-like leaves, densely covered with flowers of bright orange and golden yellow, which flower from June until frost. A fine plant for the border or rockery, also potting.



Tagetes Gnome

ly plant, 10 in. Pkt. 10c.

SIGNATA PUMILA LITTLE GIANT. Only 4 to 6 inches high with an abundance of dainty single golden orange flowers. Pkt. 10c.

SIGNATA PUMILA G NOME. Plants are only 6 in. high, covered with golden yellow flowers all summer. Pkt. 10c.

SIGNATA PUMILA. Bright orange flowers. A love-

Thunbergia

(Black Eyed Susan). A beautiful rapid-growing annual climber. Used extensively in hanging baskets, vases, etc., and to cover low fences. Can be used in the rockery as it will trail over the ground, forming a dense mat of foliage and trumpet shaped flowers. Colors range through all shades of yellow, orange, buff, to pure white with dark centers. Will grow 5 ft. Finest mixed. Pkt. 10c.



Thunbergia

Tithonia (Mexican Sunflower). An odd plant growing 5 to 7 feet high, that throws up from the root many stout, woody stalks like the Dahlia, with large foliage. The dazzling orange-scarlet flowers resemble the single Zinnia. **SPECIOSA.** Orange-vermilion. Pkt. 10c.

TORCH. Top winner in the 1951 All-America. Easy to grow, plant only about three feet high, flowers a brilliant orange-red, blooming from mid-August until frost. Heat and disease resistant. (See back cover.) Pkt. 25c.

Torenia (Wishbone Flower). Bushy plants 10 inches high covered with lovely, rich colored snapdragon-like flowers of sky blue with a touch of gold on the tip. Fine for beds, pots, or hanging baskets. **FOURNIERI.** Pkt. 15c.

Venidium Produces long daisy-like flowers similar to the African Daisy of deep orange, apricot, cream, white, yellow or salmon colored flowers 4 to 5 inches across marked at center with a reddish-brown zone. Plants grow 2 to 3 feet. **FASTUOSUM.** Hybrids. Pkt. 15c.

Verbena The sweetly scented flowers are borne in large clusters and bloom profusely from mid-summer until late in autumn. Plants 12 inches high.

HYBRIDA GRANDIFLORA.

Red, cream eye.
Rose pink, white eye.
Dark Blue, cream eye.
Mid-Blue.
Salmon Pink.
Scarlet.
Violet, white eye.
Crimson.
Blue, white eye.
Creamy white.
White.
Mixed colors.
Each of above.
Pkt. 10c.



Verbena

HYBRIDA DWARF COMPACT. Plants grow about 6 inches high. Fine for edging or pot culture.

Blue Sentinel. White Ball, pure navy blue, white.
Fireball, brilliant Blue Shades.
crimson. Pink, white eye.
Venus, salmon Mixed.
pink. Each, pkt. 10c.

CRIMSON GLOW. Flowers are pure glowing crimson, without eye. Pkt. 10c.

BEAUTY OF OXFORD HYBRIDS. Shades from rose pink to rose red. Pkt. 10c.

LAVENDER GLORY. Lavender with creamy eye. Pkt. 10c.

ERINOIDES (Moss Verbena). Produces purplish-blue or white blossoms. Flowers from June until frost. 12 in. Pkt. 10c.

VENOSA. Strong thrifty grower covered with bright purplish heliotrope flowers. 1 foot. Pkt. 10c.

Vinca Rosea (Periwinkle). Ornamental free-blooming plants with light green shiny foliage and handsome pink and white flowers. May be taken up in fall and potted and kept in bloom through the winter. Sow seed indoors early, or in the open when ground is warmed up. Grow 12 to 15 inches high. Mixed. Pkt. 10c.

FLOWERING PLANTS

During May and June we offer seedling flowering plants in the most popular varieties. Weather conditions determine just how early plants are ready, but the plant season usually begins the forepart of May and extends well into June. We also have Geraniums, Pansies, Canas, Vinca Vines, Daisies in baskets and pots for the window box or garden, and perennial plants.

Violas (or Tufted Pansies). Resembling miniature pansies or violets. Do well in sun or shade and flower from early summer until frost. Splendid for border or rockery. Height, about 6 inches.

APRICOT. Beautiful rich apricot shade, center tinged orange. Pkt. 25c.



Violas

LUTEA SPLENDENS. Bright yellow. Pkt. 25c.

FINEST MIXED. Pkt. 25c.

Viola Plants. As a rule we have viola plants in the spring, in various colors. None sent Parcel Post.

Virginia Stock These fragrant little flowers are only 6 inches tall, but sown early, will give you a lot of color between the spring and summer flowers. Mixed. Pkt. 10c.

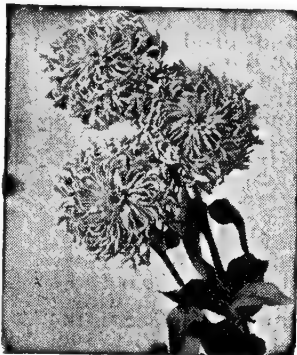
Wallflower (Goldlack). The peculiar sweet fragrance of their flowers should win favor. Easily grown and last long as cut flowers. Bloom in July and August. Plants about 18 in. high. Single or double, mixed. Pkt. 10c.

Wild Cucumber Vine (Echinocystis). The quickest climber known. Has white, fragrant flowers. Height, 15 to 20 ft. Crop failure. No seed in 1952.

Wild Garden Annual Flower Mixture

The easiest and surest growing annuals that will produce an abundance of flowers for cutting. Pkt. 10c; 1 oz., 30c; ¼ lb., 85c.

Xeranthemum Another of the Everlastings. The flowers are small, but very double and come in shades of white, pink and purple with silvery foliage. Very desirable for drying and winter bouquets. Height, 18 to 24 inches. Pkt. 10c.



Zinnia Fantasy

Zinnias Zinnias are one of the most desirable and lovely flowers in the garden. They grow well in partial shade but like most flowers do best in a sunny location. The seed may be planted in the garden from April 15th to June 1st, and when the plants are two or three inches high they should be thinned out to 12 or 15 inches apart. Plants flower from early summer until frost.

Tall, Large Flowered Zinnias

GIANT DAHLIA FLOWERED, 2½ TO 3 FEET

CANARY BIRD. Rich canary yellow. **CRIMSON MONARCH.** Largest of the red.

DREAM. Deep rosy lavender.

EL DORADO. Salmon apricot.

EXQUISITE. Light rose, center deep rose.

GOLDEN DAWN. Golden yellow.

GOLDEN STATE. Rich orange yellow.

ILLUMINATION. Deep rose, self color.

LUMINOSA. Bright deep pink.

METEOR. Rich deep red, very large.

ORIOLE. Orange and gold bicolor.

POLAR BEAR. Very large, creamy white.

PURPLE PRINCE. Deep purple, large.

ROYAL PURPLE. Deep reddish purple.

SCARLET FLAME. Bright scarlet.

WILL ROGERS. Glowing, intense scarlet.

Each above or mixed colors. Pkt., 10c; ½ oz., 20c; ¼ oz., 30c.



Zinnia, Dahlia Flowered

CALIFORNIA GIANT OR MAMMOTH. 3 to 4 feet. Mixed colors. Pkt., 10c; ½ oz., 20c; ¼ oz., 30c.

MISS WILLMOTT. A lovely soft pink. Pkt., 10c.

BURPEE HYBRIDS. A fine mixture, mostly chrysanthemum type flowers in a wide range of colors. Pkt., 25c.

DAVID BURPEE. The flowers have curled and quilled petals, similar to Chrysanthemums. Colors run to pastel shades. Plants 3 feet. Pkt. 10c.

FLORADALE SCARLET. A new type of Zinnia of vibrant scarlet red blossoms, 5 to 5½ inches across, very informal. Plants 2½ to 3 feet tall. Pkt. 15c.

LUTHER BURBANK. Lovely pastel shades of cerise, primrose through delicate buff-yellow, canary yellow, ivory, salmon, rose, apricot, peach, pink to deep rose. Mixed colors. Pkt. 10c.

SUPER CROWN O'GOLD. Large, well-formed flowers, in soft pastel shades, each petal overlaid at the base with deep golden yellow. Rich pastel tints. Pkt., 10c.

Medium Flowered Types FANTASY

Color of flowers ranges through shades of red, yellow and orange as well as the popular pastel pinks and cream. Plants 2½ to 3 feet. Mixed. Pkt. 10c.

ORANGE QUEEN. A lovely deep orange color. The petals are curled and crested and present a flower of informal charm. Pkt., 15c.

WHITE LIGHT. About as pure white as a Zinnia comes. Pkt. 10c.

WILDFIRE. A rich scarlet. Pkt. 10c.

STAR DUST. Flowers are a rich deep golden yellow. Pkt. 10c.

ROSALIE. Intense rose. Pkt. 10c.

MELODY. Orchid lavender. Pkt. 10c.

PINK FRILLS. Soft flesh pink. Pkt. 10c.

Gaillardia Flowered

NAVAJO.

Plants about 2 feet tall. Colors: rose pink, bronze, yellow, orange, lavender and combinations of these colors. Mixed. Pkt. 10c.

EARLY WONDER.

Very early, fine for short season locations. 18 to 24 inches tall. Fine for cut flowers. Mixed colors. Pkt., 10c.

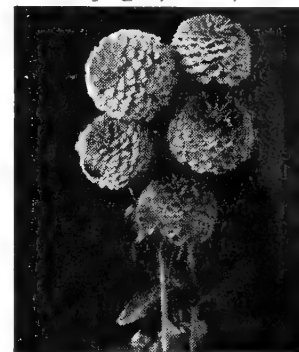
PUMULA DOUBLE (Cut and Come Again). Plants are 12 to 18 inches high, flowers 2½ to 3 inches in diameter. Early, fine for cut flowers. Buttercup yellow, canary yellow, salmon rose, scarlet, white, rose pink or mixed colors. Pkt., 10c.

SCABIOUS FLOWERED MIXTURE. Plants 2 to 2½ feet high, flowers resemble Annual Scabiosa. Colors include crimson, scarlet, orange, yellow, pink and white. Mixed colors. Pkt., 10c.

PEPPERMINT STICK. You must try this new Zinnia. One of the best cut and come again bloomers, in a wide range of colors. About 2 ft. tall. Pkt., 15c.

Dwarf, Small Flowered Zinnias

PERSIAN CARPET. A 1952 All-America. Plants about 12 in. tall. Flowers like tiny dahlias; no two alike. Have cutting stems. (See back cover page.) Pkt., 25c.



Zinnia, Lilliput

rose, white, scarlet, burnt orange, lilac purple or mixed.

BLACK RUBY. Flowers deep velvety maroon on long stems. Plants 18 in. tall of the Lilliput type.

DAINTY GEM. Button-like blossoms of bright rose pink at center and lighter pink at outside.

LILLIPUT PASTEL MIXTURE. Dwarf compact plants, 12 to 15 inches in height. Mixed colors. Any of above: Pkt., 10c; ½ oz., 20c; ¼ oz., 30c.

LINEARIS. Only 8 to 10 inches high. The single flowers are a deep golden orange. Pkt. 10c.

HAAGEANA (Mexican Hybrids).

These small double flowers are long enough for bouquets. Mixed colors. Pkt. 10c.

RED RIDING HOOD.

Grows but a foot high, of compact form and covered the entire season with double, intense scarlet flowers. Fine for border. Pkt. 10c.

TOM THUMB.

Plants are only 4 to 6 inches high, compact, covered with red, orange, yellow, pink, rose and other pastel shades. Excellent pot plant. Mixed colors. Pkt., 10c.



Gaillardia Flowered Zinnia

IMP. LILLIPUT. These plants form little bushes and are covered with small short stemmed very double flowers. Bloom all summer until late in the fall. Fine for borders. Grow 12 to 15 inches high. Canary yellow, crimson, golden orange, rose pink, salmon



Haageana Dwarf Zinnia

PERENNIAL FLOWER SEEDS

CULTURE. The seed bed must be well drained, fine and firm. If the soil is at all heavy, lighten with peat or sand. The seed may be planted from May to early July. When seedlings have two pair of leaves transplant into rows a few inches apart each way, and later when they begin to crowd transplant a second time. This involves extra work but is necessary to raise sturdy plants. Keep them partly shaded all summer. In August or September, if well developed, they may be placed in their permanent locations where they are to blossom the following year, or left in the seed beds for early spring transplanting.

BIENNIALS. Some varieties if planted early will bloom the first year, but most bloom the second year and die.

PERENNIALS. Many varieties bloom the first year, but usually they start the second year and live indefinitely, excepting that they die down in winter and come to life again in the spring.

SPACING. A safe rule is to plant perennial plants one-half the ultimate height apart. Do not crowd plants.

CULTIVATION. Use the hoe freely in keeping the ground well cultivated all summer long. You will be repaid with stronger plants and more beautiful flowers.

WINTER PROTECTION. It is best to cover young plants the first winter with marsh hay or similar mulch along in November, before real cold weather sets in. Most perennials need no winter covering after they have become established, but some, like Oriental Poppies, Shasta Daisies, Tritoma and Iris ought to have a winter covering in late November, here in the Northwest. Remove covering gradually in the spring.

Achillea (Yarrow). One of the best hardy perennials. Flowers resemble pompion Chrysanthemums. If seeded early will bloom the first year. **THE PEARL.** Pure white, double flowers, fine for cutting. 2 feet. June to August. Pkt. 15c.

Aconitum (Monkshood). Hardy perennials with showy blue spikes of hood shaped flowers. Valuable for planting in shady beds or borders.

NAPELLUS. 2½ feet. Blooms July and August. Pkt. 15c.

Agrostemma (Coronaria). Stout, erect-growing plants with silver foliage, which contrasts well with the showy bright rosy-crimson flowers produced during June and July. Grows 2 feet high. Fine for border or rockery.

ATRO-SAUGINEA. Pkt. 10c.

Alyssum Saxatile (Basket of Gold). Has masses of bright yellow flowers. After the blooming season is over the seed pods may be used in Everlasting bouquets. Grows 8 to 12 inches high. Pkt. 10c.

Anchusa (It. Dropmore Variety). Blue, large, Forget-Me-Not-like flowers. Very fine for the back of the perennial border or for a screen. Grows 4 to 5 feet high, blooms in June and July. Pkt. 10c.

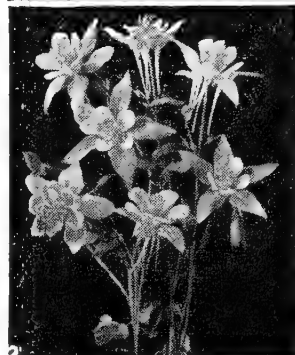
Anthemis (Hardy Marguerite). Grows about 12 to 15 inches high, bearing in profusion, Daisy shaped, yellow or white flowers, that blossom in July and August. **KELWAYI.** Golden yellow. Pkt. 10c.

Arabis Alpina (Rock Cress). Plants are spreading, only 12 inches high, with pure white flowers in spring. Pkt. 15c.

Armeria A pretty border or rock garden plant that does well even in poor soil. Foliage is grass-like, above its base numerous stiff stems carry little globe-shaped flowers in early summer. Perfectly hardy.

FORMOSA HYBRIDA ROSE. 24 inches tall. Pkt. 10c.

Aquilegia (Columbine). Grows from 12 to 30 inches high, bearing through May and June their exquisite blossoms of clear blue, white, rose, lavender, yellow and purple. For planting in borders along woods or shrubbery they are unsurpassed. Fine for the rockery. Do best in partial shade.



Aquilegia

about 2½ feet. Pkt. 15c.

COERULEA (Rocky Mountain Columbine). A lovely combination of blue and white. Blooms May to July. Plants 1 to 2 feet. Pkt. 15c.

Asters Single fall-flowering hardy herbaceous plants thriving in any good garden soil producing masses of dainty and brightly colored blossoms. Dwarf varieties bloom in late spring and early summer; tall varieties in late summer and fall.

AMELLUS HYBRIDS. New named varieties. Finest mixed. Pkt. 25c.

ALPINUS, GOLIATH. Bears large bluish purple flowers in May and June. Plants 6 to 10 inches high. Plant in full sun 6 to 8 inches apart. A fine plant for rock garden or for edging. Pkt. 25c.

Aubrietia (Rainbow Rock Cress). Showy and beautiful creeping plants, about 6 inches, for borders or rockeries. Flowers of violet, crimson and rose form a solid mass of color for weeks. Blooms in April and May. Pkt. 15c.

Bellis

(English Daisy)

They are semi-hardy and thrive best in a cool, shady place, but do well in almost any soil. Admirably adapted for edgings, borders and low beds will bloom for years if given winter protection. Height 6 to 8 inches. Mixed colors. Pkt. 25c.



Shasta Daisy

Hardy Carnation A large flowered, long stemmed, hardy Carnation of merit. Plants 2 feet. **TEICHER'S MIXED.** Pkt. 25c.

Catananche (Cupid's Dart). Flowers pale violet with dark center. Grows 12 to 18 inches high. A very nice border plant and Everlasting flower. **COERULEA.** Pkt. 10c.

Centaurea (Bachelor Button). The flower resembles the annual Cornflower. **MONTANA.** Deep blue. Pkt. 10c.

Cerastium (Snow in Summer). A pretty perennial plant for edging and rockery. Foliage is silvery and hairy; flowers white, covering plant completely in June. 6 inches. Pkt. 10c.

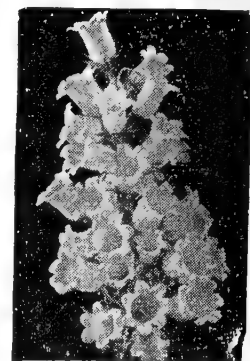
Campanula Well known beautiful hardy herbaceous perennials and biennials bearing a great many attractive bell-shaped flowers, thriving best in light, rich soil. Tall varieties are fine for cutting. Heights vary from 9 inches to 5 feet.

CANTERBURY BELLS (Campanula Medium). Grow about 3 feet high and produce single or double bell-shaped flowers in blue, white, purple and pink colors. Single or Double Mixed Colors. Pkt. 10c.

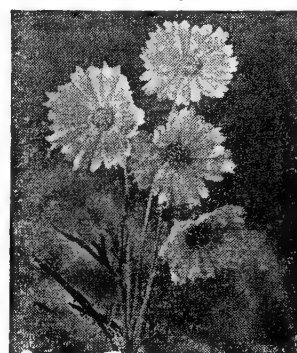
CUP AND SAUCER TYPE (Campanula Calycanthema). In this variety the outer petals form a brim, like a saucer. 2 feet, mixed colors. Pkt. 10c.

CARPATICA (Harebell). Only 9 inches high, clear blue flowers from June until September. Fine for rockery. Does well in partial shade. Pkt. 15c.

PERSICIFOLIA (Peach Bells). Blue flowers on 2 to 3-foot plants, bloom in June and July. Pkt. 15c.



Campanula Medium



Coreopsis Lanceolata

Coreopsis A hardy perennial about two feet high that produces an abundance of large, Daisy shaped flowers on long stems. One of the best perennials for cut flowers.

LANCEOLATA. Single. Pkt. 10c.

DOUBLE SUNBURST. The fully double flowers are 1½ to 2 inches across, deep golden yellow. Bloom early. Pkt. 10c.

DOUBLE NEW GOLD. Fine golden yellow. Pkt. 10c.

Daisy, Shasta ALASKA. A hardy perennial bearing large pure white flowers, in great profusion on long stems, making it fine for cut flowers. Blooms all summer. Height 24 to 30 inches. Pkt. 10c.

SHASTA, CONQUEROR. Flowers as large as Alaska. Stems 2-3 ft. Pkt. 10c.

NEW GIANT DOUBLE WHITE. Double flowers ranging through semi-doubles to a type though single, forms beautiful large flowers with curled, quilled petals. Height 2-3 ft. Pkt. 25c.

Dianthus (Hardy Garden Pinks). These old garden favorites with their Carnation-like flowers and clove scent are especially valuable for cut flowers. 12 to 18 inches. Mixed colors. Pkt. 15c.

Dictamnus (Gas Plant). A bushy perennial about 3 feet high with attractive flower spikes. The plant oils give off a vapor which will ignite if a lighted match is held under a seed cluster on a sultry evening.

FRAXINELLA. Mixed. Pkt. 15c.

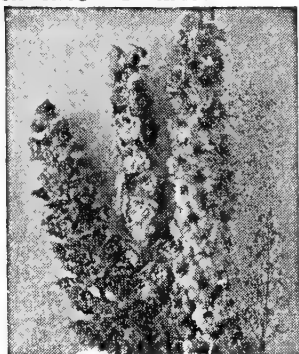
Digitalis (Foxglove). A very interesting family of old-fashioned plants, whose culture is so simple as to bring them within the reach of all. It grows in strong clumps and is one of our very fine hardy biennials. Grows 2-4 ft. Mixed colors. Pkt. 10c.

SHIRLEY. A giant variety of the Gloxinia flowered type. Flower spikes 4 feet long of purest white to deepest rose colors, handsomely spotted. 5 to 7 feet. Mixed colors. Pkt. 10c.

PERENNIAL MIXTURE

As many as 20 different kinds of perennials are included in this splendid mixture. Pkt. 10c.

Delphinium (Hardy Larkspur). Very decorative border plants ranging in height from 2 to 5 feet. Colors range from various shades of blue to white, pink and scarlet. When plants are 15 inches high, they should be staked to prevent breaking down. As blooms die, cut stems to the ground and you will get a second flower spike in late summer.



Pacific Giants

IMPROVED BELLADONNA. Spikes are graceful and fine for cutting. Flowers are large light azure blue, plants 3 to 4 feet high. Pkt. 15c.

IMPROVED BELLAMOSUM. A dark form of the light blue Belladonna; flowers rich deep blue. 3 to 4 feet. Pkt. 15c.

GOLD MEDAL HYBRIDS. Many are double flowered and range in color from pale lavender to indigo blue. Mixed colors. Height, 3-4 ft. Pkt. 15c.

LAMARTINE. Rich deep blue with white eye. Sturdy plants grow 4½ to 5 feet. Pkt. 15c.

CARDINALE (Scarlet Larkspur). Long spikes of scarlet flowers. Seed germinates slowly. Grows 2 to 3½ feet high. Pkt. 15c.

CHINENSIS (Chinese Larkspur). Flowers freely from June to September. Lovely in beds or borders, fine for cutting. Plants 2 to 3 feet high. Mixed. Pkt. 15c.

PACIFIC GIANTS. This is a most wonderful strain of Delphiniums. The plants are about 5 feet tall, and of branching habit, yet the flower-spikes are unusually well formed and not at all over-heavy. Comes in a magnificent range of colors and lovely pastel shades. Mixed colors. Pkt. 25c.

GALAHAD SERIES. Huge clear white. White bee. Pkt. 35c.

BLACKMORE AND LANGDON TYPE. In colors from the lightest blue to dark blue. Height, 3 to 5 feet. Choicest mixed. Pkt. 15c.

BODGER'S HOLLYHOCK STRAIN. A selection of light shades. Pkt. 15c.

WREXHAM'S HOLLYHOCK STRAIN. Flowers in blue, white and pink combinations, many of them bi-colors. Many spikes are 1½ to 2 inches in diameter. Plants, 4-5 ft. Pkt. 15c.

Gaillardia (Blanket Flower). A very free blooming perennial bearing large yellow, or red Daisy-shaped flowers. Very easy to grow and will bloom all summer. Splendid for cut flowers. Do best in rich light soil and sunny situation. Height, 24 to 30 inches.

GRANDIFLORA. Mixed colors. Pkt. 10c.



The Dazzler

THE DAZZLER. Flowers very large, intense maroon-red and golden-yellow tip on the end of each floret. Pkt. 10c.

MONARCH STRAIN. Finest mixed. Pkt. 10c.

GRANDIFLORA GOBLIN. Dwarf, compact, neat plants reach a height of about 12 to 15 inches. Covered with showy, yellow bordered deep red flowers. Pkt. 10c.

PERENNIAL PLANTS

We carry a complete variety of plants during the spring season. Drop in and see our fine assortment.

Geum Produce plants 2 feet high, bearing beautiful double flowers from June until September. Flower stems should be dipped in warm water after cutting to avoid wilting.

MRS. BRADSHAW. Of orange-scarlet color. Pkt. 10c.

LADY STRATHEDEN. Rich golden-yellow flowers. Pkt. 10c.

HYBRIDA MIXED. Pkt. 10c.

Gypsophila (Baby's Breath). These airy plants produce many tiny blossoms on delicate-appearing but sturdy, well-branched stalks. Are fine for cut flower mixtures. May be dried to use in winter bouquets. 2 to 3 feet.

PANICULATA. Single white. Pkt. 10c.

PANICULATA. Double white. Pkt. 15c.

PACIFICA. Especially hardy. Grows to 4 feet the second year. The tiny pink blossoms flower late. Pkt. 15c.

REPENS. (Dwarf Baby Breath). Splendid in rockeries. Mixed colors. Pkt. 15c.

Helianthemum (Dwarf Sun Rose). Low growing plants completely covered with bloom during July and August. Pale rose changing to lilac, then to white. Excellent for rockeries. 8-12 in. **MUTABLE.** Pkt. 10c.

Heuchera (Alum Root, Coral Bells). Does well in any garden soil producing dainty sprays of rose carmine flowers on long stems. Plants grow 15 to 20 inches. Pkt. 25c.



Hibiscus

Hibiscus

(Rose Mallow). Showy shrub-like plants, 3 to 5 feet high, with handsome green foliage, on which large flowers 3 to 9 inches in diameter are borne from July until fall. Hibiscus send up new shoots each year and are perfectly hardy in the Northwest. Are slow starters in spring. Mixed colors. Pkt. 15c. (See page 33 for roots.)

Hollyhocks The colors range from pure white to darkest maroon, some are bright and gay, others of the softest and most delicate shades and tints. The plants grow 5 to 7 feet in height.



Hollyhocks

CHATER'S DOUBLE. Finest mixed. Pkt. 10c.

SINGLE AND DOUBLE. Mixed. Pkt. 10c.

DOUBLE IMPERATOR. Large rosette flowers, in charming color combinations. Pkt. 10c.

DOUBLE TRIUMPH. Beautifully fringed rosette flowers in many new shades and bi-colors. Pkt. 10c.

SINGLE HOLLYHOCKS. They are usually of freer growth than the doubles and present a very lovely appearance. Mixed. Pkt. 10c.

Honesty (See Lunaria).

Iberis (Hardy Candytuft). Bloom in spring and early summer. Much used for rockeries and cemeteries.

SEMPERVIRENS. White, 12 inches. Pkt. 15c.

GIBRALTICA. White flushed lilac. 1 foot. Pkt. 10c.

Kudzu Vine (Jack and the Bean Stalk). A remarkably hardy climber that will grow 8 to 10 feet the first year from seed. When established, it will grow 40 to 60 feet a season. Has Wistaria-like purple blossoms in August. **PUERARIA.**

THUNBERGIANA. Pkt. 15c.

Lathyrus (Hardy Sweet Pea). Showy, free flowering, hardy perennial climber, valuable for covering old stumps, fences, etc., continually in bloom. Good for cut flowers. They require a rich deep soil. Grows 5 to 7 feet tall. Mixed. Pkt. 15c.

Lavendula Vera (True Lavender). Delightfully fragrant flowers July and August. Used dry for their lasting perfume. Plants grow 12 to 18 inches high. Pkt. 15c.

Lilium Regale (Regal Lily). One of the most beautiful of all known lilies. Flowers are delightfully perfumed, of white, slightly suffused with pink. Blooms in July. Bulbets from spring planted seeds should be lifted and planted deeper in the fall. These bulbets will flower the following summer. Height, about 3 feet. Pkt. 10c.

Lilium Tenuifolium (Coral Lily). 24 inches high and one of the earliest to bloom. Flowers are deep scarlet and have recurved petals of waxy texture. Pkt. 15c.

Linum (Flax). A pretty plant bearing delicate flowers through the entire summer.

PERENNE. Dainty sky-blue flowers on graceful arching stems. Grows 30 inches high. Pkt. 10c.

Lobelia Grows 2 to 4 feet in height, bearing long spikes of brilliant flowers from July to September.

CARDINALIS (Cardinal Flower). Flaming scarlet. Pkt. 15c.

Lunaria (Honesty or Satin Flower). A curious biennial chiefly grown for its shiny silvery seed pods, which make a useful winter decoration. Grow 18 to 24 inches high. Pkt. 15c.

Lupine Forms dense bushes 3 to 4 feet high, elegant spikes with white, rose and blue fragrant flowers from June to September. Lupines are of the hardiest perennial plants grown. Mixed colors. Pkt. 10c.

Lupines should be inoculated with Nitragin. Increases bloom. Garden size 15c, by mail 17c.

RUSSELL LUPINES. This strain of Lupines has enormous flower spikes 3 feet long, closely set with individual flowers. Extraordinary range of colors. Plants 3½ to 4 feet high. Mixed colors. Pkt. 15c.

Lychnis Handsome hardy perennial with brilliant colored flowers. Excellent for borders; blooms first year if sown early.

CHALCEDONICA (Maltese Cross). Flowers fiery red in clusters, each blossom forming a Maltese cross. Blooms June to August. Plants 3 feet high. Pkt. 15c.

Myosotis (Forget-Me-Not). These dainty little flowers love cool moist soils, and bloom freely in spring and fall.

ALPESTRIS. The Alpestris Myosotis while a perennial, needs winter protection. Is mostly treated as an annual; bright blue. Plants 8 inches high. Pkt. 15c.

PALUSTRIS (Hardy Forget-Me-Not). Dwarf blue plants that bloom from early spring until fall. Fine for rock gardens or edgings. 10 inches. Pkt. 15c.

Nepeta An excellent perennial plant for the rock garden, or anywhere. Very compact, producing during July and August masses of beautiful flowers. **MACRANTHA**. Violet, 2 feet high. Pkt. 25c.

Oenothera (Evening Primrose). Are elegant plants for growing in an exposed sunny position, either in the border or rockery. Grow 10 to 12 inches high and bear from June until August, large flowers, often 5 inches in diameter.

MISSOURIENSIS (Macrocarpa). Yellow flowers. Pkt. 15c.

Passiflora (Passion Flower). Highly interesting herbs and shrubs, mostly climbers that legend and superstition have attached to these plants. The flowers are of unusual structure, thought by early discovery to be emblematic of the crucifixion of Christ. Plant in a sunny place outdoors in summer. Mixed. Pkt. 15c.

Pentstemon (Bearded Tongue). The plants are 2 to 3 feet high, thickly set with flowers, varying in all shades from rosy-white to purple with white or veined throats. Flower from July until frost.

SENSATION IMPROVED. Colors vary from pink to scarlet and maroon, beautifully blotched and veined with other colors. Pkt. 15c.

Phlox (Hardy Phlox). These beautiful hardy plants are among the most lovely in the garden during late summer and early fall. Phlox require a soil that is deeply enriched and plenty of water during the blooming period.

DECUSSATA. Seed slow and erratic in germinating. Freeze seed before planting. Grow 2 to 3 feet high. Finest mixed. Pkt. 25c.

Physalis Franchetti (Chinese Lantern). The flower of this plant turns to a bright red giving it the appearance of a Chinese lantern. The stems should then be cut for drying, and unlike other Everlastings, should be hung up in an upright position to allow the lanterns to hang in their natural position. Grow 15 to 24 inches high. Pkt. 15c.

Physostegia These handsome plants flower from July until frost; growing 3 to 4 feet high and bear broad dense spikes of delicate pink tubular flowers not unlike a giant Heather. **VIRGINICA**. Pkt. 25c.



Platycodon

Platycodon

(Bell-Flower). A member of the Campanula family, with handsome, branching spikes 1 to 2 feet high. Platycodon is considered by many the best bell flower. They bear these large, showy deep-blue flowers continuously from July until frost.

MARIESI. Dark blue, 1 foot. Pkt. 15c.

Poppy, Oriental One of the most gorgeous of all perennials, producing in May and June its enormous blossoms, often 6 inches in diameter. The colors range from soft blush and rose to flaming scarlet and richest maroon. Height, 18 to 30 inches. All colors mixed. Pkt. 15c.

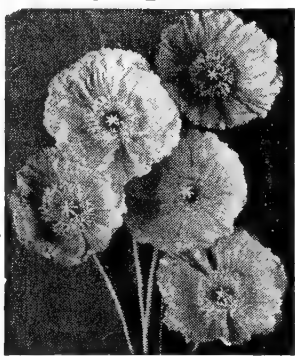
ORIENTAL SCARLET. Very striking and glorious color. Pkt. 15c.

SALMON SHADES. New shades of salmon and salmon-pink tints are offered now in this perennial. Pkt. 15c.

Perennials for Rock Gardens

Alyssum Saxatile.	Gypsophila.
Aquilegia.	Helianthemum.
Arabis.	Heuchera.
Armeria.	Myosotis.
Aubrietia.	Nepeta.
Bellis or Daisy.	Oenothera.
Campanula.	Poppy Nudicaule.
Carpatica.	Saponaria.
Cerastium.	Violas.
Geum.	

Poppy, Iceland Plants grow 12 to 15 inches high. Will flower entire season if seed pods are kept picked. Pick when in bud for cut flowers. Bloom the first season from spring-planted seed.



Gartford Giants

GARTFORD GIANT ART SHADES. Exceptionally fine flowers, beautifully fluted on extremely long heavy stems in a range of pastel shades. Mixed colors. Pkt. 15c.

THE EMPEROR. 20 inches. The very finest. The large flowers are a deep tangerine orange. Pkt. 15c.

YELLOW EMPEROR. Canary yellow. Pkt. 15c.

THE EMPRESS. 20 inches. Color is a lovely shade of salmon rose and pink. Pkt. 15c.

SANFORD'S GIANTS. Vigorous growers, long stems, beautiful colors. Pkt. 15c.

EL MONTE. Deep orange. Pkt. 15c.

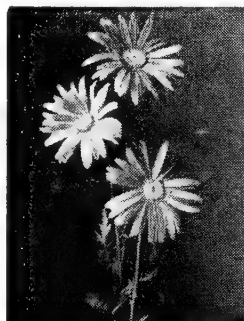
Pyrethrum

(Painted Daisy). Bears large Daisy-like flowers ranging in color from white to deep red with bright yellow centers; fine for cutting. Blooms in early spring and again in the fall. Plants grow 20 to 30 inches.

ROSEUM. Single mixed. Pkt. 15c.

ROSEUM. Single and double. Pkt. 15c.

ROSEUM JAMES KELWAY. Deep scarlet. Pkt. 15c.



Pyrethrum

Rudbeckia

(Cone Flower). This is a hardy, free flowering and easily grown perennial. The Daisy-like flowers are fine for cutting, blooming from July until October.

PURPUREA. Rosy purple, 4 feet. Pkt. 15c.



Rudbeckia

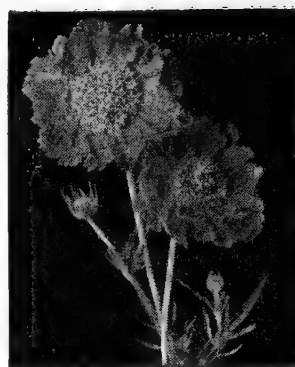
FOR MORE BEAUTIFUL FLOWERS

FEED WITH VIGORO

Rock Garden Mixture A selection of finest dwarf perennials. Many lovely plants, 6 to 15 inches high. Over 50 rare and choice varieties in this mixture. Pkt. 15c.

Salvia Treat as an annual here in the Northwest. Plants grow about 3 feet tall, bearing long spikes of deep blue flowers in August. Seed should be sown indoors in February. **FARINACEA BLUE BEDDER**. Pkt. 15c.

Saponaria (Bouncing Bet). A very showy, trailing, hardy perennial rock plant about 9 inches high, producing in summer small, bright rose flowers. **OCYMOIDES**. Pkt. 10c.



Scabiosa Caucasicca

Scabiosa Caucasicca

Succeeds in any fairly rich soil and sunny location. Plants grow 18 to 24 inches high, blooming from July until frost.

GIANT HYBRIDS (Isaac House Strain). Very large, fringed and

ruffled flowers in shades of blue from lavender to dark blue. Pkt. 15c.

Scutellaria (Skull Cap). Pretty blue rock plant, 18 inches high, dense bushy habit, abundance of light blue flowers, June to August. **COELESTINA**. Pkt. 15c.

Statice (Sea Lavender). Produces a mass of tiny blossoms resembling the Baby's Breath, during July and August. These, if cut and dried, last for months.

LATIFOLIA. A charming variety for the border or rockery of purplish-blue color. Fine for bouquets. 1 foot. Pkt. 10c.

Sweet William (Dianthus Barbatulus). A beautiful, free-blooming hardy perennial producing a splendid effect in beds and borders with rich and varied flowers. Grow 15 to 20 inches high.

SINGLE MIXED. Pkt. 10c.

DOUBLE MIXED. Pkt. 15c.

NEWPORT PINK. Single. Pkt. 15c.

DWARF SWEET WILLIAM. Compact, 6 inches high, flowers in a wide range of colors. Single and Double Mixed. Pkt. 15c.

PERENNIAL PLANTS

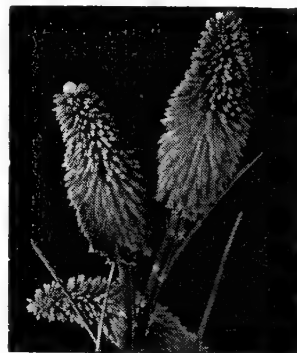
We carry a complete variety of plants during the spring season. Drop in and see our fine assortment, during May and June.

Thalictrum (Meadow Rue). The charming rose and white flowers and fern-like leaves are produced in graceful sprays during August and September. Plants about 4 feet. **DIPTEROCARPUM**. Pkt. 25c.

Tritoma

(Red Hot Poker). They grow 3 to 4 feet high and bear in August blazing, orange-red spikes, blooming until frost.

PFITZERS HYBRIDS. Pkt. 15c.



Tritoma

Valeriana (Garden Heliotrope). A hardy plant, rather spreading, with silvery green foliage, producing large clusters of rosy white, very fragrant flowers, during June and July. Fine for bouquets. 3 to 4 feet. Pkt. 15c.

Verbena Upright growing, 4-foot slender branched stems, umbels of sweet scented rosy lavender flowers. Germination takes full six weeks. **BONARIENSIS**. Pkt. 25c.

Veronica Speedwell Plants about 18 inches, bearing small spikes of rich blue flowers most of the summer. Fine for cutting. **SPICATA**. Pkt. 15c.

Wallflower (Cherianthus). Half hardy perennials bearing early, dainty yellowish, red or orange flowers, which have a delicious odor. Require winter protection in the Northwest. Height, 15 to 18 inches. Single or double, finest mixed. Pkt. 10c.

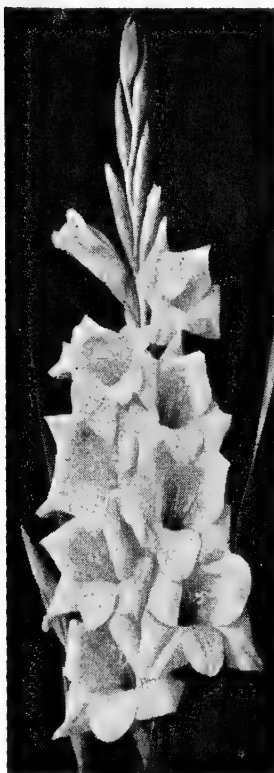
GLADIOLI

The Gladiolus bloom just when the garden needs brightening up. Their bright spikes help the perennial border at midsummer before its autumn revival.

CULTURE. The gladiolus thrives in a sunny location. Grows in any good garden soil, but does much better when the latter has been enriched with a fertilizer. If the bulbs are planted at intervals from April to June the blooming period will extend from July until frost. A trench should be dug five inches deep and an inch of sand placed in the bottom to absorb surplus moisture. Set the bulbs 6 to 8 inches apart.

For earliest blossoms, draw 2 inches of soil over the bulbs at first, replacing the rest when the shoots appear. Keep free from weeds and give plenty of water, especially during the blooming period.

Before the ground freezes lift the bulbs. After the tops dry, they should be cut off, the bulbs separated and the small side growth or bulblets removed. The latter may be handled like the big bulbs. Then the bulbs are placed in cloth bags, Vermiculite or sand to prevent them from becoming too dry. Keep bulbs in a cool temperature.



Gladiolus
Lovely in the Garden
Fine for Cut Flowers

	Each	Doz.
Abu Hassan , deep rich violet, tall spike.....	10c	\$.90
Algonquin , glowing scarlet, tall, ruffled.....	12c	1.00
Beacon , large, rose scarlet, cream blotch.....	10c	.90
Black Opal , tall very deep red almost black...10c		.90
Blue Beauty , medium blue, darker edges.....	12c	1.00
Burma , large, ruffled, deep rose red.....	10c	.90
Chamouny , cerise rose edged silvery rose.....	10c	.90
Daisy Mae , tall, orange pink, cherry throat...12c		1.00
Elizabeth the Queen , clear lavender with darker lines in throat. Heavily ruffled.....	12c	1.00
Ethel Cavel Cole , light pink, sometimes flaked..10c		.90
Fire Brand , glistening fiery red.....	12c	1.00
Florence Nightingale , large, outstanding white..15c		1.50
Gold Dust , clear deep yellow, long spike.....	10c	.90
Heavenly White , tall, white lavender overcast..12c		1.00
High Finance , smoky salmon, greyish overcast..12c		1.00
Jeanie , bright clear pink, cream throat.....	10c	.90
King Lear , fine reddish purple, ruffled.....	12c	1.00
Lavender & Gold , light lavender, gold throat...12c		1.00
Leading Lady , creamy white, yellow throat....10c		.90
Maid of Orleans , milky white, cream throat....10c		.90
Margaret Beaton , snow-white, small orange scarlet blotch in throat. Large, tall spike...12c		1.00
Miss Wisconsin , beautiful deep rose pink.....	12c	1.00
Orange Gold , deep golden orange, tall spike...10c		.90
Orange Light , nice light orange.....	12c	1.00
Oregon Gold , clear yellow, ruffled, tall spike...10c		.90
Oriental Pearl , huge, clear cream.....	12c	1.00
Pandora , geranium-pink, carmine throat.....	12c	1.00
Parnassus , deep purple, large florets.....	12c	1.00
Picardy , clear shrimp pink, ruffled, very large.10c		.90
Rameses , very deep purple, tall spike.....	10c	.90
Red Charm , one of the finest reds, tall.....	12c	1.00
Rosa Van Lima , rose pink, pencilled throat....10c		.90
Royal Garnet , dark red-black.....	15c	1.50
Saint Paul , ruffled, medium red.....	12c	1.00
Snow Princess , pure white, large, long spike...10c		.90
Spic and Span , tall, rich pink, ruffled.....	15c	1.50
Spotlight , deep yellow, red blotch in throat...12c		1.00
Vagabond Prince , mahogany brown with red blotch	12c	1.00
Valeria , brilliant scarlet, ruffled, tall.....	12c	1.00
Variation , beautiful light pink.....	12c	1.00
White Gold , large ruffled, cream, gold throat...10c		.90
Special Mixture , large sized bulbs.....	8c	.75

DAHLIAS

The Dahlia is one of the most popular of garden flowers. Its flowers may be used for garden decorations, house decorations, bouquets, florists and exhibition.

CULTURE. An open, sunny location seems to favor them at all times. Dahlias can be planted any time after danger of frost is over, but do not plant too early. The Dahlia is a fall flower and if planted too early will commence to bloom in the hottest weather, and either blast in the bud or produce one-sided flowers.

Plant tuber 6 inches deep on its side, having sprout or eye facing upwards; cover with about two inches of soil. When sprouts are 6 inches high add more soil, making it level with surface. Cultivation is the principal requirement of the Dahlia.

	Each
Amber Queen. (pompon) Apricot and amber.....	25c
Autumn Sunset (dec) Large, yellow tinted red.....	40c
Bashful Giant. (dec) Large, apricot and amber.....	30c
California Idol. (dec) Large, light yellow.....	45c
Commando. (dec) Large, dark lavender.....	40c
Col. Lewis. (dec) Large, deep pink.....	50c
Darksome. (pompon) Maroon.....	25c
Dee Dee. (pompon) A lovely lavender color.....	25c
D. M. Moore. (dec) Maroon almost black.....	25c
Gay Paree. (cactus) Golden bronze suffused red.....	35c
Hillcrest Sunset. (dec) Autumn shades.....	40c
Jane Cowl. (dec) Large, bronzy buff & old gold.....	35c
Jean Trimbee. (cactus) Large, rich petunia violet.....	45c
Jimmy Foxx. (dec) Large, coppery red tinted henna.....	40c
Joe Fette. (pompon) Pure white, early.....	25c
Kemp's Monarch. (dec) Large, reddish orange.....	50c
Kemp's White Wonder. (dec) Large, pure white.....	35c
Miss Oakland. (dec) Large, pure white.....	45c
Monarch of the East. (dec) Huge, golden buff.....	50c
Monmouth Champion. (dec) Large, flame red.....	35c
Morning Mist. (pompon) White suffused lavender.....	25c
Mrs. Geo. LeBoutillier. (dec) Finest large red.....	35c
Mrs. I. D. ver Warner. (dec) Large, orchid pink.....	30c
Omar Khayyam. (dec) Large, red and orange.....	35c
Osa Helen. (cactus) Huge, American beauty red.....	50c
Red Sunset. (dec) Large, bright red.....	45c
Rosa Wilmouth. (pompon) Light rose pink.....	25c
Rose Fallon. (dec) Giant, deep old gold.....	35c
Sanhicans Bluebird. (dec) Bright violet blue.....	30c
Snowdrift. (dec) Large, white.....	35c
Spy. (pompon) Bright red.....	25c
Star of Bethlehem. (cactus) Pure white.....	40c
The Commodore. (dec) Huge, canary yellow.....	30c
Yellow Gem. (pompon) Clear canary yellow.....	25c
Zant's Pink. (dec) Large, dark pink.....	45c
Zant's Purple Beauty. (dec) Large, rich purple.....	45c
Series B Box —6 Large Flowering Dahlias, each root wrapped and labeled.....	\$1.00
Series E Box —6 Exhibition Dahlias, Decorative type, each root wrapped and labeled.....	\$1.50
Postage extra on mail orders of bulbs.	

CANNAS

The Cannas thrive under almost any conditions and if given a little care and attention, will produce an abundance of attractive foliage as well as large spikes of beautiful flowers of unusually bright colors. Their long flowering season insures a constant display of color.

Cannas make the best showing when planted in beds by themselves. The soil should be well fertilized and worked up thoroughly to a depth of 10 to 12 inches. The bulbs can be set about 12 inches apart and about 4 to 6 inches deep. Mulchings with lawn cuttings will help retain the moisture. Start bulbs in pots indoors in March or April. Do not set out until all danger of frost is over; about June 1st here in the Northwest.

CANNA PRICES, on varieties listed: Each, 15c; dozen, \$1.50; postpaid, \$1.65.

We will have pot-grown Canna plants in green or bronze leaf and red flowers only, in late May at 50c each, or \$5.00 a dozen.

City of Portland. A deep pink which does not fade during the hot weather. Foliage green. A fast grower and heavy bloomer. 5 feet.

Richard Wallace. Bright golden yellow flowers, green foliage, free blooming. Grows 4 feet high.

King Humbert. Scarlet flowers and bronze leaves. A remarkable Canna. Incomparably beautiful. 4 feet high.

The President. A rich, glowing scarlet, and immense flowers, produced on erect stalks well above the green foliage. Grows 4 feet high.

Yellow King Humbert. Foliage is a very dark green, flowers a deep rich yellow, softly spotted and blotched with bright red. Grows 4 feet high.

PEONIES

The Peony is a native of Siberia which undoubtedly accounts for its great vigor and hardiness. The ideal flower for the great Northwest since it endures the most intense cold without injury. The Peony is one of the most easily grown, and showiest of the perennial flowering plants. Conditions of the soil, location and cultivation are important factors in growing Peonies.

Peonies may be planted in the spring during the month of April and the early part of May or in September. Work the soil thoroughly to a depth of 8 or 10 inches, applying at the same time a generous amount of Vigoro or bone meal fertilizer, mixed well into the soil. Plant root in this prepared soil so that the crown will be about 1 inch below the surface. Press the soil firmly around the roots.

Peonies should not be planted any closer than 3 feet apart and should not be close to trees as the roots of the trees take from the soil the nourishing elements that are needed by the Peonies. Plant in a sunny location.

The following selected varieties we offer for spring or September delivery. Large 3 to 5 eye divisions.

Whites

Festivia Maxima, 9.3. An early white, flecked crimson. A fine cut-flower variety. Each, \$1.25.

Mme. Jules Dessert, 9.4. One of the finest. Color a creamy white, with buff and salmon shades. Each, \$1.25.

Pinks

Mons. Jules Elie, 9.2. An immense self-colored flesh-pink, shading a trifle deeper toward the base. Each, \$1.25.

Sarah Bernhardt, 9.0. A true apple-blossom-pink. Blooms late mid-season. Fragrant. Each, \$1.25.

Walter Faxon, 9.3. The most striking of all pinks, color salmon rose. A beauty. Each, \$1.25.

Reds

Felix Crousse, 8.4. A very brilliant rose-red, globular, bomb shape, fragrant with sturdy growth. Blooms mid-season. Each\$1.25

Karl Rosenfield, 8.8. A brilliant and striking red, coming into bloom in early midseason. Each, \$1.25.

Mary Brand, 8.7. A wonderful crimson variety with a silky brightness. Flowers mid-season. Each, \$1.25.

PEONY AND IRIS BLOOM DISPLAY

During the Spring flowering period, we will have blossoms of some of the finest of both iris and peony varieties. Watch papers for announcement.

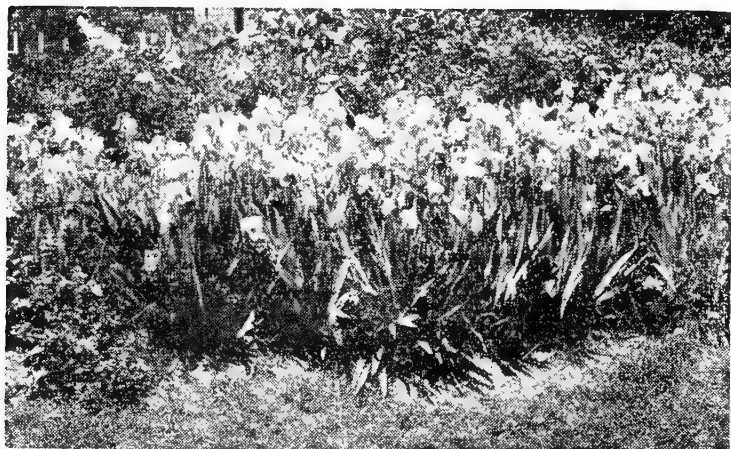


Peonies—As Beautiful as the Rose—Hardy

SPECIAL PEONY OFFER

Any three of the very select peonies listed on this page Priced at \$1.25 each **\$3.25** for (by mail, \$3.50)-----

IRIS



Iris Is a Grand Early Season Bloomer

Iris should be planted in a sunny location and may be planted in groups or singly. Bearded varieties in general prefer an alkaline rather than an acid soil. The Iris should be planted in a well-drained location as too much moisture, especially in hot weather, may cause the roots to decay. Iris may be planted at any time of the year except when they are in bloom or when the ground is frozen, although the best time for planting is in the summer months of July and August.

We are offering the following select list of popular Iris. Orders will be accepted for July or August delivery. We can also supply almost any variety of Iris.

Amigo. Clear light lavender. Standards deep purple velvet. Reminds one of a rich silken pansy. Each, 50c.

Applique. A white plicata with bright rose markings. Lightly ruffled blooms on strong stalks. Each, \$1.00.

Azure Skies. Very popular light blue. Gracefully ruffled and flaring. Each, 75c.

Blue Rhythm. Very fine medium blue with a silvery finish. A Medal Winner for 1950. Each, \$2.50.

Blue Shimmer. Clear tone of blue is polka dotted and peppered on ivory white. Each, \$1.00.

VISIT OUR IRIS SHOW

During the blooming period of Iris, usually the end of May and early June, we have on display in our store a large number of Iris blooms, among them some of the world's newest and finest varieties. Orders for Iris can then be left for August delivery.

Cascade Splendor. A lovely ruffled Iris of blended pink, tan and apricot. Exceptionally large blooms. Each, \$2.00.

Christabel. A splendid glowing red. Its size and vigor make a mass of copper-red. Each, 50c.

Grand Canyon. Rich blend of plum, copper and gold. Excellent grower. Each, 60c.

Harriet Thoreau. Large flowers in a lovely shade of orchid pink. Each, 75c.

Klondyke Gold. Flowers rich golden yellow which hold their color well and are of large size. Each, 50c.

Louvois. The brown velvet Iris. Standards light chocolate, falls rich glossy red-maroon. Each, 50c.

Majenica. Broad petaled flower of bright salmon pink color. Each, 50c.

Melanie. One of the loveliest of the orchid pinks. Hardy grower. Each, 50c.

Ola Kala. Brilliant rich deep yellow. Blooms are ruffled and flaring on tall stalks. Each, 75c.

Prairie Sunset. A very popular iris in a blend of pink, rose, apricot, copper and peach. Each, \$1.00.

Priscilla. Pure white with very flaring form. Lovely in foreground plantings. Each, 75c.

Sable. Wonderful shade of richest deep black-violet with a claret tone. Blue beard. Each, 75c.

Sharkskin. A very fine white iris with leather-like petals. Each, 75c.

Spindrift. Delicate sea-shell pink with a bright tangerine beard. One of the new pink iris. Each, \$1.25.

Wabash. Snowy white standards, ultramarine-blue falls with bright margining. Each, 50c.

Winneshiek. Very worthwhile dark blue. The large flowers are lightly ruffled. Each, 50c.

Winter Carnival. Outstanding, tall, pure snow white in color, gold throat. Each, \$1.00.

On Mail Orders, add 15c for one Iris, and 2c for each additional root.

FERTILIZERS

FERTILIZER ANALYSIS: First number indicates Nitrogen; 2nd, Phosphoric Acid; 3rd, Potash.

	5 lbs.	10 lbs.	25 lbs.	50 lbs.	100 lbs.	500 lbs.	1 ton
Vigoro, 6-10-4	\$0.53	\$0.95	\$1.70	\$2.80	\$4.55	\$22.75	\$91.00
Vertagreen, 5-10-5 ..	.53	.95	1.70	2.80	4.55	22.75	91.00
Armour's Ornamental, 10-8-6 .....	.60	1.00	1.75	3.00	5.25	24.00	71.20
Milorganite, 6-2-0 ..	.50	.90	1.55	2.55	4.25	21.25	80.00
Golf Brand Turf Food 10-6-4				3.95	7.50	34.25	124.25
Bone Meal, Steamed, 2-26-0 .....	.75	1.35	2.85	4.00	7.00	33.50	130.00
Raw Bone Meal ....	.85	1.50	3.00	4.75	8.00	37.50	140.00
Sulphate of Ammonia, Koppers .....	.65	1.00	1.85	3.00	5.00	24.00	90.00
Sheep Manure ....	.45	.65	1.00	1.75	3.50	16.00	60.00
Blood Meal	1.25	2.00	3.75	6.50	12.00		
Fish Meal	1.25	2.00	3.75	7.00	12.00		
Nitrate of Soda ....	.75	1.25	2.25	3.75	6.50		
Aluminum Sulphate .60	1.00	1.50	2.50	4.00			
Rose Food, G & O .85	1.35	3.00		9.75			
Hardwood Ashes ..	.50	.85	1.35	2.00	3.75		
Potash .....	.75	1.00	2.25	3.50	6.00		
Limestone pulverized .....	.30	.45	.55	.75	1.25		
Gypsum or Land Plaster .....	.25	.35	.50	.75	1.25		
Hydrated Lime ....	.35	.55	.75	1.10	2.15		
Borax .....	.65	1.10	1.85	3.25	6.00		
Dri-Conure	7 1/2 lbs.,	\$0.75		2.55	4.50		
	5 lbs.	10 lbs.	25 lbs.	50 lbs.	80 lbs.	1 Ton	
Vigoro CG, 5-15-10					\$3.75	\$72.00	
Armour's C.C. 6-12-12					3.75	71.20	
Brimm 4-24-12					4.00	84.35	
Blenn 3-12-12					3.00	59.70	
5-20-10 .....	.65	1.00	1.45	2.50	4.00	79.35	
4-24-12 .....	.65	1.00	1.50	2.50	3.50	79.85	
3-12-12 .....	.60	.90	1.30	1.75	2.75	53.70	
3-9-18 .....	.60	.95	1.35	1.85	3.00	58.00	
0-20-20 .....	.60	1.00	1.50	2.50	3.50	68.10	
0-20-10 .....	.60	.95	1.35	1.85	3.00	57.95	
0-12-36 .....	.60	1.00	1.50	2.50	3.50	69.00	
0-20-0 .....	.60	.90	1.25	1.75	2.00	42.15	
3-18-9 .....	.65	1.00	1.50	2.50	3.50	64.25	
2-12-6 .....	.50	.75	1.00	1.50	2.50	45.00	

SALT

Granulated, 100 lb. bag	1.95
Diamond M, 100 lb. bag	3.00
Water Softener, A Kleer, 100 lb. bag	1.95
CC Rock, Ice Cream, Sidewalk, 100 lb. bag	1.95
FC Rock, Stock or Hay, 100 lbs.	1.75
White Cattle, 50-lb. block, each .....	.85
Iodized, 50-lb. block, each	1.25
Sulphurized, 50-lb. block	1.10
Epsom Salts, for stock or poultry, 5 lbs. ....	.35
Sugar Cure, 7 1/2 lbs.	1.10
Tender Quick, 4 lbs.	1.10

FIELD SEED AND FERTIL

R. L. Gou

SEEDSMAN SIN

500 JACKSON STREET
Issued January 21, 1952

ALFALFA

	60 lbs. to the bushel.					
	1	5	1/4	1/2	1	100
	lb.	lbs.	bu.	bu.	bu.	lbs.
Grimm Cert.	\$1.50	\$5.65	\$15.50	\$29.00	\$56.16	\$93.60
Ranger Cert.	1.50	5.65	15.50	29.00	56.16	93.60
Northland Mont.	1.25	5.00	14.00	25.50	48.96	81.60
Cossack Uncert.	1.25	5.50	15.00	27.75	52.56	87.60
Northland Wash.	1.25	5.00	13.50	24.90	46.80	78.00
Northland California ..	.85	3.00	8.30	14.50	27.86	45.60

CLOVERS

	60 lbs. to the bushel.					
	1	5	1/4	1/2	1	100
	lb.	lbs.	bu.	bu.	bu.	lbs.
Trefoil, Imp.	1.75	5.50	13.50	25.00	45.00	75.00
Medium Red	1.25	4.00	10.00	18.50	34.92	58.20
Mammoth Red	1.25	3.75	9.50	17.50	32.76	54.60
Alsike	1.50	4.50	11.00	19.75	38.16	63.60
White Dutch	1.50	7.00	17.50	30.00	57.60	96.00
Sweet, Northland ....	.60	1.75	3.75	6.50	11.52	19.20
Sweet, Yellow ....	.60	1.75	4.00	7.00	11.88	19.80
Hubam ....	.50	1.75	4.00	7.00	12.25	20.40
Ladino	2.75	10.00				186.00

TIMOTHY

	45 lbs. to the bushel.					
	1	5	10	1/2	1	100
	lb.	lbs.	lbs.	bu.	bu.	lbs.
Timothy ....	.45	1.50	2.50	4.75	8.37	18.60
Lbs.	1	5	10	25	50	100
Timothy & 20% Alsike ..	.75	2.50	4.00	8.50	15.00	27.60

MISCELLANEOUS GRASS SEEDS

Kentucky Blue Grass	Please	Ask	For	Quantity	Prices	
Red Top	Please	Ask	For	Quantity	Prices	
Astoria Bent	Please	Ask	For	Quantity	Prices	
Seaside Bent	Please	Ask	For	Quantity	Prices	
Domestic Rye Grass	Please	Ask	For	Quantity	Prices	
	Lbs.	1	5	10	25	100
Fescue Alta	\$1.75	\$7.50	\$12.50	\$25.00	\$90.00	
Fescue Meadow	1.00	4.00	6.50	12.50	45.60	
Fescue Sheep or Chew	1.90	8.50	15.00	28.50	108.00	
Bromus Inermis Can. ....	.75	2.50	4.00	8.75	32.50	
Bromus Inermis Lincoln ....	.75	2.75	4.50	10.00	36.00	
Reed Canary	1.00	4.00	6.50	12.50	45.60	
Orchard Grass	1.00	4.00	6.50	12.00	42.00	
Poa Trivialis	1.75	7.50	12.50	22.50	85.00	
Crested Wheat Grass	1.25	5.00	8.50	17.50	66.00	
Rye Grass Perennial .....	.60	2.00	3.50	7.50	26.40	

BUCKWHEAT

50 lbs. to the bushel.					
	1	1/4	1/2	1	100
	lb.	bu.	bu.	bu.	lbs.
Common	\$.35	\$1.00	\$ 1.65	\$ 3.00	\$ 5.75

SORGHUM

	Lbs. per		10	25	50	100
	acre	lb.	lbs.	lbs.	lbs.	lbs.
Black Amber (Fodder)	.50	\$0.25	\$1.35	\$3.00	\$6.75	\$12.50
Waconja Orange	.50	.25	1.35	3.00	6.75	12.00

FERTILIZER PRICE LIST - 1952

W. H. C. & Co.

ESTABLISHED SINCE 1898

ST. PAUL 1, MINN.

Prices in this list are subject to change without notice.

MISCELLANEOUS FIELD SEEDS

	1 lb.	5 lbs.	10 lbs.	25 lbs.	100 lbs.
Sand or Winter Vetch	\$0.75	\$2.50	\$4.50	\$7.50	\$26.50
Sunflower, Mammoth .....	.65	2.50	4.00	7.50	27.50
Dwarf Essex Rape .....	.50	1.75	3.00	6.00	20.00
Sudan, Sweet .....	.50	1.50	2.25	4.50	15.00
Sudan .....	.50	1.50	2.25	4.50	15.00

SEED GRAIN

5 bushels or more, 10 cents per bushel less

OATS	Lbs. per bu.	1 lb.	1/4 bu.	1/2 bu.	1 bu.
Bonda	32	\$0.25	\$0.75	\$1.35	\$2.35
Clinton Certified	32	.30	.90	1.60	2.90
Ajax Cert.	32	.30	.90	1.50	2.75
Shelby	32	.30	.75	1.35	2.35
Mindo Certified	32	.30	.85	1.45	2.60
Bond Cross	32	.30	.75	1.35	2.35
Andrew Cert.	32	.30	.85	1.45	2.65

BARLEY	Lbs. per bu.	1 lb.	1/4 bu.	1/2 bu.	1 bu.
Wis. No. 38 Barbless	48	\$0.25	\$1.00	\$1.65	\$3.00
Moore Certified Smooth	48	.25	1.00	1.75	3.25

SPELTZ	Lbs. per bu.	1 lb.	1/4 bu.	1/2 bu.	1 bu.
Speltz or Emmer	40	\$0.35	\$0.95	\$1.65	\$2.95

RYE	Lbs. per bu.	1 lb.	1/4 bu.	1/2 bu.	1 bu.
Rosen Winter	56	\$0.35	\$1.15	\$2.00	\$3.60
Spring	56	.35	1.25	2.15	4.10

WHEAT	Lbs. per bu.	1 lb.	1/4 bu.	1/2 bu.	1 bu.
Mida	60	\$0.30	\$1.25	\$2.40	\$4.35
Henry	60	.30	1.25	2.40	4.35
Lee Blue Tag	60	.50	2.00	3.75	7.25
Marquis	60	.30	1.25	2.40	4.35

FLAX	Lbs. per bu.	1 lb.	1/4 bu.	1/2 bu.	1 bu.
Koto	56	\$0.35	\$2.25	\$4.00	\$7.75
B-5128	56	.35	2.25	4.00	7.85
Red Wing	56	.35	2.25	4.00	7.75

FIELD PEAS AND FIELD BEANS

60 lbs. to the bushel.

	1 lb.	1/4 bu.	1/2 bu.	1 bu.	100 lbs.
Canada Yellow Peas	\$0.30	\$2.00	\$3.50	\$6.25	\$9.75
Soy Beans, Manchu type .....	.30	1.75	3.00	5.50	
Soy Beans, Mandarin type .....	.30	1.75	2.95	5.35	

ONION SETS

Prices Will Be Given Later

ONION PLANTS

Prices Will Be Given Later

FIELD CORN—HYBRID

These quotations are f. o. b. St. Paul. All corn offered subject to stock remaining unsold.

	1 lb.	1/4 bu.	1/2 bu.	1 bu.
Hybrid Flat, 80 day, KFI	\$0.50	\$3.75	\$6.75	\$12.90
Hybrid Flat, 85 day, KL2	.50	3.75	6.75	12.90
Hybrid Flat, 90 day, KEI	.50	3.75	6.75	12.90
Hybrid Flat, 93 day, KH	.50	3.75	6.75	12.90
Hybrid Flat, 98 day, KS2	.50	3.75	6.75	12.90
Hybrid Flat, 100 day, KS6	.50	3.75	6.75	12.90
Hybrid Flat, 105 day, KL	.50	3.75	6.75	12.90
Hybrid Large Rd. 100 day, KS6	.45	2.75	5.00	9.15
Hybrid Small Flat 100 day, KS6	.50	3.50	6.25	11.80

SILO AND FODDER CORN

	1 lb.	1/4 bu.	1/2 bu.	1 bu.
Elephant Fodder	\$0.25	\$1.35	\$2.50	\$4.85

POPCORN

	1 lb.	5 lbs.	10 lbs.	25 lbs.	100 lbs.
Dwarf Hulless Hybrid					
Minn. 250	\$1.00	\$4.00	\$7.00	\$15.00	\$55.00
White Hulless, Jap	.60	2.25	3.75	8.00	30.00
South American Yellow	.60	2.25	3.75	8.00	30.00
South American Yellow Hybrid	1.00	4.00	7.00	15.00	57.00

MILLETS

48 lbs. per bushel. In seamless sacks containing about 130 lbs.

	1 lb.	1/4 bu.	1/2 bu.	1 bu.	100 lbs.
Siberian	\$0.35	\$1.25	\$2.00	\$3.50	\$6.35
Hungarian	.40	1.50	2.75	4.50	8.50
Hog Millet or Broom Corn	.35	1.35	2.50	4.00	7.25
Early Fortune or Red Proso	.35	1.35	2.50	4.00	7.25
German	.35	1.35	2.50	4.00	7.25
Japanese	.50	1.75	3.00	5.50	9.75
White Proso	.40	1.50	2.75	4.50	8.50

SEED POTATOES

Prices Will Be Given Later

Flowering Bulbs

AMARYLLIS. A fine strain that should produce a beautiful blossom in about 6 to 8 weeks after planting indoors. Use a fibrous soil when potting. Leave about two inches of bulb above soil when potting. In the garden they should not be set out earlier than May here in the Northwest and should bloom in late June or July. Take up in the fall and store in sand or vermiculite. Mixed colors only, each, 60c; 3 for \$1.60.

ANEMONE. Windflower. Thrive best in a rich sandy loam, but will do well in most any well drained garden soil. Plant bulbs 6 to 7 inches apart, 2 inches deep, laid flat with growing knob upwards. Soak tubers before planting. After flowering and leaves have dried off, lift tubers and store in dry sand.

De Caen. Large single flowers in a wide range of colors. Each, 8c; 5 for 35c; doz., 65c.

St. Brigid. Semi-double and double in a mixture of bright colors. Each, 8c; 5 for 35c; doz., 65c.

AURATUM LILY. The Gold-banded Lily. Flowers white, thickly studded crimson maroon with a wide gold band down the center of each petal. Grows 4-5 ft. high. Plant 9 in. deep. Each, 60c.

BEGONIA. Tuberous Rooted. This is perhaps the most beautiful and best plant to grow in shady places. They come in a marvelous range of colors, white, yellow, pink, salmon, red, orange, etc. Tuberous Begonias also make fine house plants. Soil must be light and the greater part composed of sand, leaf mold and peat. Do not water too much in starting bulbs. For outdoor planting do not set out until all danger of frost is over. Plant 1 ft. apart. Cultural leaflet on request.

Double Camellia Flowered. Without doubt is the most gorgeous tuberous rooted Begonia variety. Have all colors mentioned above. Each, 30c; 3 for 85c; doz., \$3.00.

FANCY-LEAVED CALADIUM. These bulbs are suitable for pot culture, window boxes and in partially shaded borders. Form leaves of almost unbelievable colors: red and green, green with spots and red veins, etc. Each, 45c; 3 for \$1.25.

ELEGANS LILY. Deep red shaded crimson, large flowers. Height 12-15 in. June flowering. Plant 4 to 5 in. deep. Each, 45c.

GLOXINIAS. These beautiful colored flowers are easily grown. Their gorgeous velvety flowers bloom for months. For potting, place one bulb to a 5 inch pot, in rich sandy loam. Cover bulb about one inch. Is more for indoor and porch plants. Does not do well in the garden. Each, 40c; 3 for \$1.10.

HENRYII. Flowers golden yellow. 5 to 6 ft. tall. Blooms Aug. and Sept. Plant 8 to 10 in. deep. Each, 55c.

HIBISCUS (Mallow). This is one of our most beautiful perennial plants in the garden. It starts slow in spring, but produces hollyhock-like flowers from mid-summer until fall. Likes rich, moist, well drained soil. Plant in a sunny location. In red, pink or white. Grow 3 to 5 feet high. Roots, each, 35c; 3 for \$1.00 (add 20c on mail orders).

ISMENE CALATHINA (Peruvian Daffodil). A grand summer flowering bulb, producing with great freedom large Amaryllis-like, pure-white, fragrant blossoms. Exceptional for cut flowers. Each, 40c.

MADEIRA VINE. The old "Climbing Mignonette." Prized on account of its rapid growth and freedom from insects. Thick, glossy leaves, and long, hanging stems of feathery, fragrant, white flowers. Each, 15c.

MONTBRETIAS. Bulbs make lovely cut flowers on spikes like miniature gladioli. Treat same as gladioli, plant 3 inches deep and about 4 inches apart. Colors are scarlet, orange, yellow and salmon. Mixed only. Each, 10c; doz., \$1.10.

OXALIS. Small plants about a foot high, recommended for rock gardens, bedding or pot plants. Flowers are mostly in pastel colors. Likes an acid soil. Bulbs, each, 3c; doz., 25c.

RANUNCULUS. Soak bulbs in water a few hours before planting. Set 3 to 4 inches apart, press firmly into soil, claws downward. Cover with sand, then with soil. Keep crown of tubers 2 inches below surface. Liberal supply of water with good drainage is necessary. Plant where a little shade is available. Giant Mixed. Each, 8c; 2 for 15c; doz., 75c.

REGAL LILY. One of the hardiest and most beautiful lilies grown. The white flower carries pink coloring on outer side with golden yellow shading of the throat. Will bear as many as 18 to 20 blooms a season. Plant 9 inches deep in a sunny, well drained soil. Large size, each, 45c; doz., \$4.50.

RUBRUM LILY. White shaded and spotted with rose and black. Flowers in August. One of the most beautiful of all lilies. Plant 9 inches deep. Each, 60c.

TENUIFOLIUM (Coral Lily). A charming early flowering deep scarlet lily with strong recurved petals of waxy texture. Does best in a cool, damp, loamy soil and partial shade. Plant 5 inches deep. Stems grow 1½ to 3 ft. high. Fine plants for rock garden. Each, 25c.

TIGRIDIA. Mexican bulbs producing showy, large oddly-shaped blooms of gorgeous beauty, in red, orange, yellow, etc. Grow 18 inches high, flowering all summer long. Handle the same as Gladiolus. Mixed. Each, 10c; doz., \$1.00.

TIGRINUM SPLENDENS (Single Tiger Lily). The large flowers are a rich salmon-orange spotted deep mahogany. Blooms in Aug. and Sept. 5 ft. tall. Plant 5 in. deep. Each, 35c; 3 for \$1.00.

TIGRINUM SPLENDENS (Double Tiger Lily). This is about the only double Lily in existence. Color same as single. Blooms Sept. 3 to 5 ft. high. Plant 5 in. deep. Each, 35c; 3 for \$1.00.

TUBEROSES (Dwarf Double Pearl). Pure white. One of the most delightfully fragrant and beautiful of the summer-flowering bulbs. Plant as soon as the ground becomes warm. Plant 2 inches deep. Each, 15c; 2 for 25c; doz., \$1.30.

Tulips and Other Bulbs for Fall Planting

During September and October we offer genuine Holland Tulip, Hyacinth, Daffodil, Jonquil, Crocus, Snowdrops, Grape Hyacinth, Lilies, Dutch Iris and other bulbs. Please write or call for special list.

Books

Make Fine Gifts for Lasting Remembrance

INDOOR GARDENER, by Daisy T. Abbott. This book tells all you need to know for potting, repotting, watering, feeding and propagating plants indoors. 96 illus. \$1.50; postpaid, \$1.65.

Tuberous Begonias, by Worth Brown. Here, for amateur or specialist, is a complete guide to successful cultivation of one of the most colorful of flowering plants. Covers propagation, culture outdoors or as house plants, pests and diseases, lathhouses, etc. Price, \$2.75; postpaid, \$2.95.

The African Violet, by Helen Van Pelt Wilson. Tells how to keep America's No. 1 house plant blooming. Covers location, watering, soil, bug control, propagation, etc. 26 illus. Price, \$2.50; \$2.70 postpaid.

GLADIOLUS, by F. F. Rockwell. It tells how to plant, fertilize, and cultivate; how to harvest and cure; and every other detail needed for success with this popular flower. 45 illustrations, 79 pages. Price, \$1.75; postpaid, \$1.85.

"QUICK FREEZING AND FAMILY FOOD GARDENING," by Gordon Morrison, is a Practical Handbook of Successful Home Quick Freezing and Gardening that is unique in its field. This is the book that shows you exactly how to garden, grow and freeze vegetables, berries and fruits so efficiently that your family can enjoy more nutritious, delicious meals all year 'round—yet save up to 50% your usual food costs. Price, \$2.75; postpaid, \$2.90.

Garden Flowers in Color, by Daniel J. Foley. This book has 350 Garden Flowers in full colored illustrations. A special section tells about soils, fertilizers and various cultural practices, with sketches of many garden operations. A guide for the beginner and a reference book for the advanced gardener. Price, \$2.95; postpaid, \$3.10.

New Garden Encyclopedia. Written by a picked staff of American Garden Authorities. 1,380 pages, profusely illustrated, giving you complete information on every thing you need to know about anything you want to grow. 10,000 articles furnish every detail of information you will need about planning, planting, fertilizing and care of your garden. Price, \$5.00; postpaid, \$5.35.

How to Grow Roses, by J. Horace McFarland and Robert Pyle. Here is a book by these rose experts which has become a standby for amateur and experienced rose growers. Answers all questions about soil preparations, fertilization, summer and winter protection, etc. 192 pages. Price, \$2.49; postpaid, \$2.65.

American Wild Life. True stories of the wild life of birds, fish, deer, bear, etc. Covers every type of American wild life. A fascinating book for young and old. 750 pages. Price, \$3.95; \$4.25 postpaid.

American Birds in Color. This most enjoyable encyclopedia tells intimate fascinating facts about more than 450 species. 387 photos, 192 in natural color. 512 pages. Price, \$4.95; postpaid, \$5.25.

Finches, Their Care and Breeding. A 100 page book that explains in detail how to care for and breed these charming birds. \$1.50, postpaid.

Parakeets and Love Birds. Gives full information on how to feed, care for and on breeding for pleasure or profit. \$1.50, postpaid.

Canaries, Their Care and Breeding. Tells how to keep your singer in good health and the secrets of breeding. \$1.50, postpaid.

ROSES

See inside back cover page for Roses in color. Secure and plant Roses in April or early May for best results. Good roses are in short supply this year.

Hybrid Perpetual Roses

Hardier than hybrid teas, not as hardy as sub-zero hybrid teas. Bloom in late summer and fall, as well as June, although not as fully as the hybrid teas.

FRAU KARL DRUSCHKI. Very large pure white of perfect form, excellent texture and keeping qualities. Considered the best white. Each, \$1.50.

PAUL NEYRON. This old time rose is still a big favorite. Deep rose, very fragrant. Each, \$1.50.

Shrub Roses

Perfectly hardy and need no winter protection. Can be planted in shrubbery borders, separate beds, groups, or as individual specimens. The Grootendorsts are the only really hardy everblooming roses.

BLANC DE COUBERT. Large fragrant white flowers; fairly double. Bloom all summer. Each, \$1.75.

HANSA RUGOSA. A showy hybrid with abundant large, reddish violet flowers. Each, \$1.50.

HARRISON'S YELLOW (Austrian Brier.) A big bushy shrub, producing quantities of medium sized, semi-double, light yellow flowers in early summer. One of the best hardy yellow roses. Each, \$1.75.

RED GROOTENDORST. The bright red double flowers are freely and continuously produced in large clusters from early June until late fall. It is one of the most suitable plants for shrubbery and specimen plantings. Needs no winter protection. Each, \$1.75.

PINK F. J. GROOTENDORST. Identical with the red variety except color, a charming clear pink. Each, \$1.75.

Brownell Everblooming Roses

Sub-zero hybrid teas from hardier species that bloom all summer, of great sturdiness and vigor, to survive sub-zero winters. Outstanding in every way.

ANNE VANDERBILT. Exquisite coppery orange, semi-double, very brilliant, fragrant, constantly in bloom. Each, \$1.85.

BREAK O'DAY. Large double flowers orange-apricot, shaded with lighter flesh tints; very fragrant. It is exceptional for its strong growth. Each, \$1.85.

CEDRIC ADAMS. A new beautiful sturdy, large and double scarlet to carmine rose. Named after the eminent commentator. Each, \$1.85.

CURLY PINK. Here is a new favorite that you are sure to class among your very best and most beautiful. Its deep lustrous two-toned pink color of 50 petals recur in ideal Hybrid Tea size and form. A constant bloomer. Each, \$1.85.

DICK WILCOX. This had to be good to be named after this well known rosarian. Color a deep red of large double blooms. Each, \$1.85.

KING BOREAS. Named for the King of St. Paul's Winter Sports, who loves his Roses when the long sub-zero nights are gone. Lemon-yellow, completely double, free, abundant bloomer; a beauty. Each, \$1.85.

LILY PONS. White with pure yellow center, large graceful flowers of indescribable delicacy, vigorous, free bloomer. Often a feature of gardens in the cold Northwest. Each, \$1.85.

PINK PRINCESS. Bud-red, flowers deep pink, famous as the first Hybrid Tea free from premature defoliation, very double. Each, \$1.85.

QUEEN O' THE LAKES. Named for the Queen of Minnesota's Aquatic Sports. Color a charming crimson. The queen of all the double reds. Each, \$1.85.

RED DUCHESS. Has captivating fragrance. Rose-red color, persistent foliage. A robust and sturdy sub-zero plant. While nearly all Brownell Roses are pleasingly fragrant, the magic of sunshine on these petals issues a new fragrance incomparably alluring in spicy sweetness and charm. One whiff is an experience to be remembered. Each, \$1.85.

SHADES OF AUTUMN. An abundant and joyous expression of bi-colored beauty. Many have reported that this beautiful red, yellow and blush flower is gorgeously outstanding. Each, \$1.85.

V FOR VICTORY. Most beautiful large, double, yellow, fragrant roses; constantly blooming. Each, \$1.85.

Everblooming Hybrid Tea Roses

From early June until frost these roses will bloom constantly, showing often 20 blooms and buds at a time.

AMI QUINARD. Maroon-red semi-double flowers. A vigorous bloomer. The best "black" rose. Each, \$1.50.

BETTY UPRICHARD. One of those delightfully contrasting types; the outside a blend of deep toned carmine with coppery orange; the interior being mostly a delicate salmon-pink. Each, \$1.50.

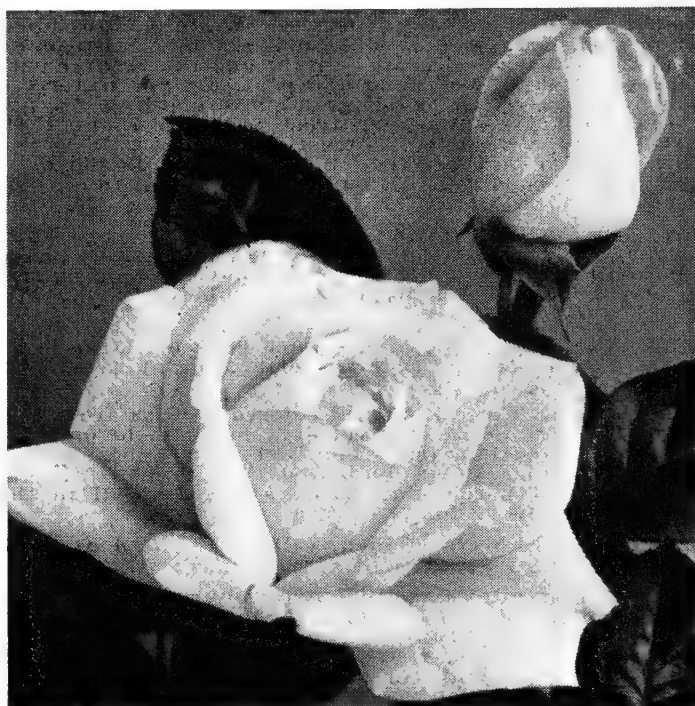
CAPISTRANO. (Pat. No. 992). Large deep rose-pink flowers on extra long, strong stems, having a lasting rich fragrance. Each, \$2.25.

CHARLOTTE ARMSTRONG (Pat. No. 455). The long, slender, long-stemmed, blood-red buds and the magnificent, brilliantly colored open flowers, red in cool weather, cerise in hot weather. Each, \$1.75.

CHRISTOPHER STONE. Large, semi-double vivid scarlet, flowers overlaid with velvety crimson. Has a delicious old rose fragrance. Of vigorous, upright growth with bright green foliage. Each, \$1.50.

CONDESA de SASTAGO. A fine double rose with buds golden yellow, beautifully striped with brilliant capucine red. The open, spicy scented blooms are of similar color. Strong grower and a perfect beauty. Each, \$1.50.

COUNTESS VANDAL. (Pat. No. 38). Lovely color combination of pink, copper, gold and salmon. Each, \$1.75.



Peace—the Finest of All Roses.

CRIMSON GLORY (Pat. No. 105). Experts agree it is the best red rose grown. Its vivid crimson shaded flowers are mellowed by a soft velvet nap. Each, \$1.75.

DIAMOND JUBILEE (Pat. No. 824). A 1948 A.A.R.S. award. Flowers of glowing buff-orange with a touch of orange-yellow at base of petals. Each, \$2.00.

EDITH NELLIE PERKINS. Of vigorous growth and free flowering. Long pointed buds; flowers long lasting and fragrant. Outside of petals red, shaded cerise-orange; inside salmon-pink. Each, \$1.50.

EDITOR McFARLAND. Beautiful deep pink blooms of perfect form. Last long when cut. Each, \$1.50.

ETOILE de HOLLANDE. Brilliant red blooms of magnificent size, perfect in half-open state, showing clean, attractive centers when fully open; petals enormous, very fragrant. Free flowering. Each, \$1.50.

FORTY-NINER (Pat. No. 792). An admirable new bi-colored Rose of rich yellow, sometimes overlaid with pink, changing to straw yellow in the open bloom. Vigorous and disease resistant. Each, \$2.00.

FRED HOWARD (Pat. No. 1006). A 1952 all-America selection. Bronzy-yellow flowers edged with pink. A vigorous plant. Each, \$2.75.

GRUSS AN TEPLITZ. This is a grand rose of the richest scarlet, shading to a velvety crimson; very fragrant, a free, strong grower. Each, \$1.50.

HELEN TRAUBEL (Pat. pending). A 1952 All-America lovely rose of long pointed buds and exquisite open fragrant flowers of peach to apricot color. A vigorous grower. Each, \$2.75.

JOANNA HILL. The buds are large, long pointed and open to large, full, semi-double, long lasting, moderately fragrant flowers of a clear yellow with orange-yellow heart on long strong stems. Each, \$1.50.

K. A. VIKTORIA. Creamy-white blooms tinted in center with lemon. Very fragrant and beautifully formed flowers on long graceful stems. Each, \$1.50.

MIRANDY (Plant Pat. 632). Large long pointed red buds; very double, continuous bloomer. Each, \$1.75.

MARY MARGARET McBRIDE (Pat. No. 537). The buds are deep salmon-pink, almost reddish in fall, and the suffusion of yellow becomes a gold at the base of the petals. Extra good for cutting. Each, \$1.75.

MISSION BELLS. (Pat. No. 928). Deep glowing salmon, which open to a clear shrimp pink. Foliage coppery-green. A.A.R.S. award for 1950. Each, \$2.25.

MME. JULES BOUCHE. While not a pure white, it is to all intents white and without question the best white everblooming bedding rose. It is fragrant, a vigorous grower and very free flowering. Each, \$1.50.

MRS. CHAS. BELL. Lovely shell-pink buds and blooms of fine, globular form with shadings of soft salmon. Fragrant. Each, \$1.50.

MRS. E. P. THOM. Large, well shaped, bright canary yellow flowers. Each, \$1.50.

MME. CHIANG-KAI-SHEK (Pat. No. 664). A grand, lemon-yellow turning lighter as flowers mature. Buds long-pointed on long stems, long keepers. Each, \$1.75.

NOCTURNE (Pat. No. 713). Color a bright cardinal red with dark shadings of crimson. Pleasantly fragrant and long-lasting flowers. Price, \$1.75.

PEACE (Pat. No. 591). 1947 All-America Selection and one of the few new roses that can justify the term "sensational." Large, golden buds, daintily edged with vivid rose, open slowly to magnificently large blooms. The shades of color vary but are always fresh and beautiful even in the fully opened flower, which lasts for days. The plant is as remarkable as the bloom. Each, \$2.50.

PINK RADIANCE. An ideal bedding rose that continues to produce its large flowers throughout the most unfavorable hot weather. A brilliant carmine-pink, with salmon-pink and yellow shadings. Each, \$1.50.

POINSETTIA. Here is a grand rose, fire-red with long, pointed, perfect buds. Fine for cutting. Blooms heavily all season. Each, \$1.50.

PRESIDENT HERBERT HOOVER. Large flowers of a very charming combination of cerise-pink, flame, scarlet, and yellow, with broad, thick petals; very fragrant. Each, \$1.50.

RED RADIANCE. A counterpart of Pink Radiance from which it is a "sport," possessing all the good traits of that valuable variety but differing in color, which is a bright cerise-red. Each, \$1.50.

ROSE OF FREEDOM (Pat. No. 791). A new long stemmed fragrant currant red rose. Blooms freely on an upright bush and disease resistant foliage. Each, \$1.75.

RUBAIYAT. Received 1947 A.A.R.S. award. Bright red, long pointed buds; continuous bloomer. Each, \$1.75.

SOEUR THERESE. (Sister Therese.) Long-pointed buds are chrome yellow, heavily marked with carmine; the open flower is rich yellow and holds its color well. Blooms freely on splendid cutting stems. Each, \$1.50.

SUTTER'S GOLD. (Pat. No. 885). An All-America award for 1950. The fragrant bright yellow buds are richly shaded with orange and red. Price, \$2.25.

TALISMAN. Brilliant gold, cerise, scarlet and pure yellow in a beautiful combination of color. Each, \$1.50.

TALLYHO. (Pat. No. 828.) A new beautiful rose from a cross of Charlotte Armstrong. Color on inside a delightful shade of pink, outside petals red. Flowers long-stemmed and spicy fragrance. Each, \$2.00.

VOGUE. (Pat. No. 926). A fine All-America for 1952. Flowers are a rich brick-red color. Each, \$2.25.

WILL ROGERS. (Pat. No. 256). Dark velvety crimson-maroon, double, free bloomer, strong, vigorous, dark green foliage. A beauty. Each, \$1.50.

Floribunda Everblooming Roses

These super-polyantha roses are rapidly becoming popular and deservedly so. Hardier than hybrid teas and more resistant to disease, they are more free and persistent bloomers, many of the varieties are never without bloom throughout the season. Flowers come usually in clusters of large individual roses. Ideal for garden display and excellent for cutting.

BETTY PRIOR. (Pat. No. 340). Wood similar to Red Dogwood, flowers red, turning to shell-pink. Each, \$1.50.

DONALD PRIOR. (Floribunda.) Has large bright scarlet, semi-double fragrant flowers all summer. Each, \$1.50.

EUTIN. Large clusters of very double, deep red flowers, on a vigorous, mildew-resistant bush. Each, \$1.50.

FASHION. (Pat. No. 789). Brilliant coral flowers overlaid with gold in large clusters and singly. Bloom all season. A.A.R.S. award for 1950. Each, \$2.00.

IMPROVED LAFAYETTE. Vigorous plant and persistent bloomer. Flowers deep red, loose-petalled double blossoms. One of the best for show or cutting. Each, \$1.50.

LAFTER. (Brownell.) Sparkling orange shades and yellow, semi-double in clusters. A lovely shade of Cheerfulness. Each, \$1.85.

NEARLY WILD. (Brownell.) Larger than most wild Roses, single flowers in clusters, very colorful and supreme in constancy of bloom. Gives beautiful color all summer. Each, \$1.85.

PINOCCHIO. (Pat. No. 484.) The large clusters of lovely salmon-pink flowers are produced in great profusion throughout the season. The individual buds form perfect miniature roses. Excellent for cutting. Height, 2 feet. Each, \$1.50.

RED PINOCCHIO. (Pat. No. 812). Similar to above Pink Pinocchio excepting color which is a vivid red. Each, \$1.75.

Climbing Roses

BLAZE. A vigorous climber, similar to Paul's Scarlet, but its crimson flowers bloom on and off all summer. Each, \$1.50.

CLIMBING AMERICAN BEAUTY. Rosy crimson flowers 3-4 inches across, produced freely in June and occasionally till frost. Very fragrant. Each, \$1.50.

DOROTHY PERKINS. Fragrant flowers soft shell-pink in large clusters. Each, \$1.25.

EXCELSA. Crimson double flowers borne in clusters. Each, \$1.25.

GARDENIA. Flowers in small clusters, creamy yellow. Each, \$1.25.

GOLDEN GLOW (Brownell, Pat. No. 263). This is a spectrum yellow, fragrant with abundant mass color display. Each, \$2.00.

NEW DAWN. The best everblooming rose ever produced. Has masses of pale pink fragrant blooms like tea roses on long cutting stems from June until heavy frost in the fall. Each, \$1.60.

ORANGE EVERGLOW. (Brownell.) A new hardy everblooming climber of dazzling coppery-orange. A fragrant and vigorous bloomer. Each, \$1.85.

PAUL'S SCARLET CLIMBER. Intense scarlet roses of excellent shape, borne in clusters. Flowers are of large size and similar to tea roses. Each, \$1.50.

SEVEN SISTERS. Has double deep pink flowers in large clusters. Each, \$1.50.

WHITE DAWN. A pure white climbing everblooming rose, producing hundreds of double blooms. Flowers first year. Each, \$1.75.

HARDY WATER LILIES

Water Lilies are one of the easiest plants to grow and no flower in the garden is as fascinating and lovely as the water lily. We give full planting instructions with each order.

Amaballis. Flowers deep pink, almost red in center, which lighten to a silver pink on the tips. Blooms are starry in form, slightly cupped. A very desirable and charming lily. Each.....\$2.00

Attraction. A Garnet-Red Lily with Ruby shading of outstanding blooms. One of the finest reds. Each.....\$2.75

Escarboucle. A very robust grower and striking color; bright crimson and scarlet. Each.....\$3.00

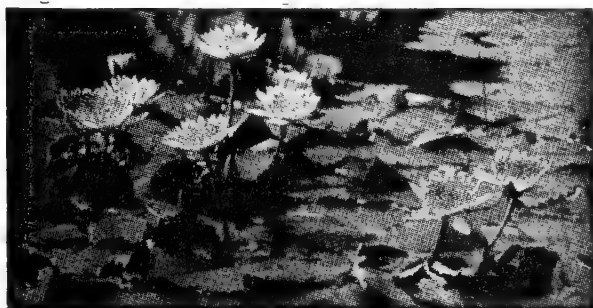
Gloriosa. One of the earliest to flower. The Carmine blooms becoming deeper as the season progresses. Each.....\$3.25

Lustrous. A beautiful new lily with rose-pink petals and thick yellow stamens. A strong grower and very compact. Each....\$3.00

Marliacea Albida. Pure white blooms of large size with yellow stamens. Are quite fragrant. The snowy white lilies bloom continuously throughout the season. A splendid variety. Each..\$2.00

Marliacea Chromatella, Yellow. The most popular of all water lilies. Blooms are a sulphur yellow and start blooming early, producing an endless succession of flowers. Leaves are handsomely spotted with maroon. Each\$2.50

Pink Opal. One of the finest pink lilies for cut flowers. The handsome deep pink blooms are of medium size. The flowers stand well above the water. Each....\$2.00



Special Water Lily Fertilizer. We have a special mixture, best suited to make an abundance of strong, vigorous flowers. Water Lilies are heavy feeders and blooms will have deeper color and bloom longer when well fertilized.

Please Note

Nursery stock after leaving our premises is beyond our control and we cannot guarantee it to grow. If, however, we are notified before July 1st, that any such stock purchased from us at the regular catalog price during the month of April or May of this year did not grow, we will replace same next spring at one-half the original cost. This does not apply to Nursery Stock purchased below quoted prices.

In the shrubs, fruit trees, berry bushes, etc., listed in the following pages, we are offering only those varieties that are especially hardy for the Northwest. Our stock comes from state inspected nurseries for your protection. As with our seeds, we take special pains in getting the very best, strong, healthy stock obtainable. Plant shrubbery as early in the spring as you can as conditions then are ideal in establishing a good root growth which is very important in transplanting.

Shrubs

ALMOND, PINK FLOWERING. Rose-like pink flowers in early spring. Should be planted deeply to prevent sprouting of the plum root on which for hardiness, this variety must be grown. One of the most beautiful early flowering shrubs. 2 to 3 ft. size. Each, \$1.60.



Flowering Almond

dy shrub, growing 6 to 8 feet high resembling the Weigelia and Honeysuckle, bearing an amazing lot of pale pink bell-shaped flowers in June. A fine shrub. Each, \$1.50.

CARYOPTERIS, BLUE MIST (Blue Spirea). Low growing shrub covered with numerous clusters of powdery blue flowers from August to frost. Foliage silvery green. 18 to 24 in. size. Each, 90c.

COTONEASTER, PEKING (Cotoneaster acutifolia). An attractive, beautifully formed shrub with thick, glossy leaves, turning to red in the fall. Small white flowers in early summer followed by large black berries which remain on the bush nearly all winter. Perfectly hardy. See Hedge Plants also. 2-3 ft. size. Each, \$1.25.

CRAB, ALMEY FLOWERING. Has large, fiery crimson flowers. A most beautiful crab. 4 to 5 ft. size, \$3.00.

CRAB, BECHTEL'S DOUBLE FLOWERING. Covered in spring with fragrant double rose-like pink flowers. A fine small lawn tree. Grows 15 feet tall. 3 to 4 ft. size. Each, \$2.50.

CRAB, FLOWERING RED SILVER. Attractive cut-leaved foliage, maroon-red above, silver on under-side. Flowers crimson, fruit bright red. Height, 25 to 30 ft. 4 to 5 ft. size. Each, \$2.50.

CURRENT, ALPINE (Ribes alpinum). A very dense growing shrub with fine dark green leaves. Height 3 to 4 feet. A very good plant where the soil is well drained. See Hedge Plants also. 18 to 24 in. size. Each, \$1.35.

CURRENT, YELLOW FLOWERING (Ribes aureum). One of the earliest shrubs to bloom in the spring. Covered with bright yellow flowers with clove fragrance. Bush grows 3 to 5 feet high. 2 to 3 ft. size. Each, \$1.35.

BARBERRY, (Berberis thunbergii). A low growing bush with small leaves beautifully colored in fall. The bright red berries remain on the branches all winter. See Hedge Plants also. 24 to 30 in. size. Each, \$1.25.

BARBERRY, RED LEAVED. Leaves and plant grow slightly larger than the common barberry. Leaves have a lovely red color. 18 to 24 in. size. Each, \$1.35.

BEAUTY BUSH. A very handsome hardy shrub, growing 6 to 8 feet high resembling the Weigelia and Honeysuckle, bearing an amazing lot of pale pink bell-shaped flowers in June. A fine shrub. Each, \$1.50.

DOGWOOD, RED TWIGGED (Cornus siberica). Grows 8 to 10 feet high, with clusters of white flowers, succeeded by ornamental berries in the fall. Stem and branches turn a blood red in the winter. 2 to 3 ft. size. Each, \$1.00.

DOGWOOD VARIEGATED (Cornus mas elegantissima). A variety similar to the Red Dogwood except that the leaves are green with a white stripe through the center. A shrub for group planting. 2 to 3 ft. size. Each, \$2.00.

ELDER, GOLDEN (Sambucus aurea). A shrub of medium height with yellow foliage and white flowers. Valuable for group planting because of its contrast in color. Grows 7 feet tall. 3 to 4 ft. size. Each, \$1.25.

FLOWERING PLUM (Prunus triloba var. plena). A showy and interesting shrub, bearing in the spring, on its long slender branches a wealth of large pink double flowers. One of the finest spring blooming shrubs. Grows 5 feet high. 2 to 3 ft. size. Each, \$1.75.

FORSYTHIA SUSPENS A FORTUNEI (Golden Bell). An upright growing shrub with finely arching branches and golden yellow flowers in early spring before leaves appear. Grows 5 ft. high. 3 to 4 ft. size. Each, \$1.25.

HIGH BUSH CRANBERRY (V. opulus). A very ornamental shrub with white flowers in late spring, followed in autumn by bright scarlet berries which remain until early winter. Grows 8 feet tall. 3 to 4 ft. size. Each, \$1.80.

HONEYSUCKLE. (Zabeli.) One of the best honeysuckle varieties, producing dark red flowers in May, followed by bright red berries. A vigorous and hardy shrub, growing to a height of 8 to 10 ft. 2 to 3 ft. size. Each, \$1.00.

HYDRANGEA SNOWBALL. (H. arborescens grandiflora.) Heavy snowball-like flowers of white from late June to frost. Should have plenty of water. Will stand partial shade. Often used for solid low borders. Grows 3 to 4 feet high. 2 to 3 ft. size. Each, \$1.60.



Hydrangea Paniculata Grandiflora

HYDRANGEA (Paniculata grandiflora). One of the showiest of autumn shrubs bearing conical flower heads of creamy white which later change to pleasing shades of red and pink in August and September. Flowers when most other shrubs are out of bloom. Grows 4 feet high. 2 to 3 ft. size. Each, \$1.60.

LILAC, Common Purple. These are the old-fashioned Lilacs. Very hardy. 2 to 3 ft. size. Each, \$1.25.

LILAC, PERSIAN (Syringa persica). A beautiful shrub with slender, arching branches and narrow leaves. Pale purple flowers. Grows 10 feet. 3 to 4 ft. size. Each, \$1.65.

LILAC, BELLE de NANCY. (French.) Large double deep pink blooms. Very fragrant. 2 to 3 ft. size. Each, \$2.25.

LILAC, CHAS. JOLY. (French.) Strong grower, producing large panicles of double dark red flowers. 2 to 3 ft. size. Each, \$2.25.

LILAC, MICHAL BUCHNER. (French.) A beautiful blending of deep lilac, bordered with lighter shades on outer edge of double flowers. 2 to 3 ft. size. Each, \$2.25.

LILAC, MME. LEMOINE. (French.) A very popular white. Flowers large, double and free blooming. 2 to 3 ft. size. Each, \$2.25.

LILAC, MT. BLANC. (French.) One of the very best single whites; color a creamy white, flowers of immense size. 2 to 3 ft. size. Each, \$2.25.

LILAC, PRESIDENT CARNOT. (French.) A dependable grower of double, orchid color flowers. 2 to 3 ft. size. Each, \$2.25.

LILAC, PRESIDENT GREVY. (French.) A fine variety producing large, full clusters of very large, double, pale blue flowers. 2 to 3 ft. size. Each, \$2.25.

NINEBARK, DWARF (Opulifolius nana). A very compact low growing bush, 3 to 4 feet high, bearing clusters of white flowers in spring, followed by red berries. Foliage very attractive. 2 to 3 ft. size, each, \$1.25.

NINEBARK, GOLDLEAF. Grows 8 to 10 ft. tall, bearing golden color leaves. Has white flowers in May and June. 3 to 4 ft. size. Each, \$1.50.

MOCK ORANGE (*Coronarius*). Orange scented, creamy white flowers in May and June. It is a strong growing shrub and like all Mock Orange is one of the best shrubs for situations which are partially shaded though preferring sun. Grows 7 ft. tall. 2 to 3 ft. size. Each, \$1.10.

MOCK ORANGE, GOLDEN (*Phladelphus aurea*). A compact shrub of an ultimate height of 4 feet with very brilliant yellow foliage. It is a mass of white flowers in May and June. 18 to 24 in. size. Each, \$2.25.

MOCK ORANGE (*Virginal*). A magnificent new variety. Large, fragrant, pure white flowers bloom over a very long period. Grows 4 to 5 feet high. Each, \$1.50.

MOCK ORANGE (*Minnesota Snowflake*, Pat. No. 538). This new Mock Orange is truly outstanding. It has all-double white, fragrant flowers that bloom profusely. Grows to a height of 10 to 12 ft. Thrives in sun or partial shade. A fast grower and very hardy. 2 to 3 ft. size, \$1.50 each; 3 to 4 ft. size, \$2.00 each.

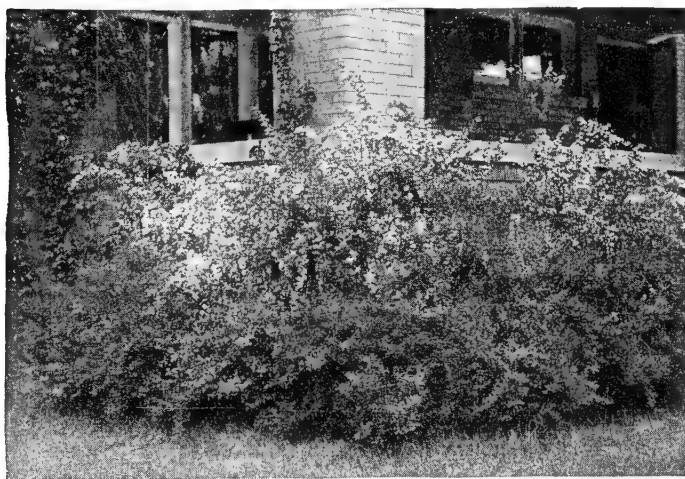
PLUM, CISTENA (*Prunus Cistena*). A very compact shrub with bright red foliage. Grows 6 to 8 ft. 18 to 24 inch size, each, \$1.25.

RUSSIAN OLIVE (*Elaeagnus angustifolia*). A large shrub with attractive silver gray foliage. Desirable in large group plantings. 2 to 3 ft. size, each, \$1.00.

SNOWBALL (*Viburnum opulus sterile*). A popular shrub attaining a height of 6 to 8 feet and having large clusters of white flowers in May and June. 2 to 3 ft. size, each, \$1.35.

SNOWBERRY, RED (*Coral Berry*). A native shrub that is hardy and easy to grow where other plants fail. Red to purplish red berries in late summer. Stands sun or shade and poor soil. Prune in early spring. Grows 4 to 5 feet high. 2 to 3 ft. size, each, \$1.00.

SNOWBERRY, WHITE (*Symphoricarpos racemosus*). A compact, graceful shrub with slender arching branches. The pink flowers are succeeded by large white berries in September that persist well into the winter. Stands shade well. Grows 4 to 5 ft. high. 2 to 3 ft. size, each, \$1.00.



SPIREA, ANTHONY WATERER. Brilliant rosy carmine flowers. Blooms all summer. Always blooms the first season. Makes a fine color combination planted with *Hydrangea arborescens*. Grows 2 feet high. 18 to 24 in. size, each, \$1.25.

SPIREA BILLARDI (*Pink Summer Spirea*). Pink flowers in terminal spikes during July and August. Suitable for moist situations. Grows 5 feet high. 3 to 4 ft. size, each, \$1.25.

SPIREA FROEBELI. Similar to Anthony Waterer, but a foot taller, with broader and darker leaves, which are a beautiful salmony bronze red in spring, reverting to similar shade in fall. Has reddish pink flowers in dense corymbs during July and August. 24 to 30 in. size, each, \$1.00.

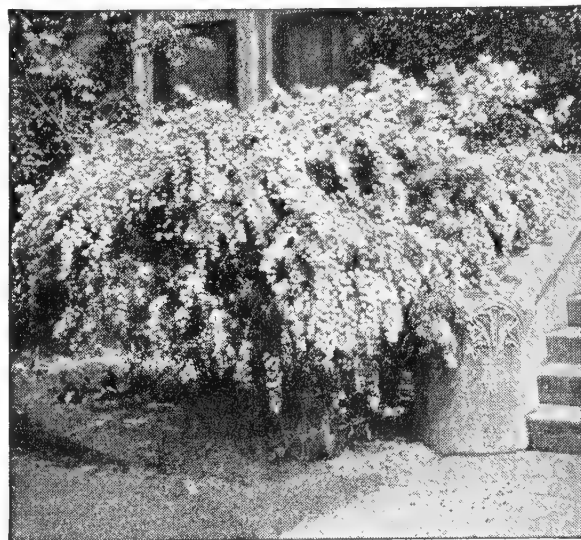
SPIREA SORBIFOLIA (*Plume Spirea*). Foliage resembles a Mountain Ash. Long spikes of white flowers in July. Stands sun or partial shade. 5 feet. 2 to 3 ft. size, each, \$1.25.

SPIREA THUNBERGI. Low growing, 3 to 4 ft., with feathery bright green foliage. snow-white flowers in early Spring. 2 to 3 ft. size, each, \$1.00.

MAIL ORDERS

MAIL ORDERS FOR NURSERY STOCK ARE SENT TO MINNESOTA, IOWA, NORTH AND SOUTH DAKOTA, ILLINOIS, and WISCONSIN POINTS ONLY. All prices are F. O. B. St. Paul. If wanted by Parcel Post, add 20% for postage and packing with a minimum of 35c; if by Express, add 10% for packing.

SPIREA VAN HOUTTEI (*Bridal Wreath*). A very hardy and effective shrub, with graceful arching branches well covered in late May with a profusion of large pure white flower clusters. Will grow in almost any location. Grows 5 to 6 feet high. 2 to 3 foot size, 85c; 10 for \$7.65; 3 to 4 foot size, \$1.10 each; 10 for \$9.90.



Spirea Van Houttei

TAMARIX. Very fine foliage producing a fern-like effect. Attains a height of 6 to 8 feet. Pink flowers July to September. 2 to 3 ft. size, each, \$1.25.

VIBURNUM AMERICANUM. A handsome shrub, growing 8 to 12 feet tall, bearing single white flowers in May, followed by edible scarlet berries, which will hang till spring. 2 to 3 ft. size, each, \$1.50.

WEIGELIA EVA RATHKE. Large crimson flowers. Blooms throughout the summer and autumn. Needs winter protection. Grows 4 feet high. 2 to 3 ft. size, each, \$1.50.

WEIGELIA ROSEA. Has coarse but gracefully drooping branches with pink flowers. If pruned after blooming will flower off and on all summer. Grows 6 feet high. 2 to 3 ft. size, each, \$1.00.

Hardy Climbers

BITTERSWEET (*Celastrus scandens*). A native vine in Minnesota. Produces an abundance of bright red berries that are used for decorative purposes in the winter. Very hardy. Good for covering trellises, etc. Each, \$1.00.

BOSTON IVY (*Ampelopsis Veitchii*). The grandest hardy climbing vine for covering houses, churches, schools, etc. Its glossy, ivy leaves make a rapid growth. The tendrils cling firmly to the smoothest surface of rock or brick. Each, \$1.25.

ENGELMAN'S IVY (*Ampelopsis engelmannii*). Leaves are larger and not as dainty as the Boston Ivy. This ivy grows very fast and clings to brick, stone or plaster. Perfectly hardy in Minnesota. Each, 75c.

SCARLET TRUMPET HONEYSUCKLE (*Lonicera sempervirens*). Trumpet-shaped flowers of bright scarlet. Blooms more or less all summer. Each, \$1.00.

GOLD FLAME HONEYSUCKLE. Everblooming trumpet-shaped flowers, fragrant, bright red outside, yellow inside. A hardy vine. Each, \$1.25.

SILVER LACE VINE. A rapid growing climber producing throughout the summer and fall large foamy sprays of creamy white flowers. Each, \$1.25.

WISTERIA (*Sinensis*). A fast growing vine, attaining a height of 20 to 30 feet. Foliage is grayish green. Produces small purple flowers in dense drooping clusters, during May and June. Each, \$1.00.

Clematis

No other climbing plant equals in attractiveness the beautiful flowering Clematis. Plant with crowns 3 inches below surface of soil. Provide good drainage.

HENRYI. Lovely large creamy white flowers. Bloom all summer. Potted plant, each, \$1.75; postpaid, \$2.20.

JACKMANI. Broad-petaled flowers of violet-purple. The most popular and hardiest of the blue-flowering Clematis. Potted plant, each, \$1.75. \$2.20 postpaid within 3rd zone only.

MME. EDW. ANDRE. Very lovely velvety red, free-flowering and continuous bloomer. Each, \$1.75; postpaid \$2.20.

PANICULATA. This strong, hardy, rapid grower with its small dense foliage and very fragrant white flowers blooms in great profusion in late July or early August. A lovely Clematis. 2 year, potted root, \$1.50. \$1.75 postpaid.

RAMONA. Single, pale blue flowers. A very lovely clematis. Potted plant, \$1.75; postpaid, \$2.20.

Ornamental and Shade Trees

ASH, GREEN. A fast growing, long-lived, drought resistant and relatively free of disease and insects. In Fall, the rich green foliage becomes an attractive yellow. Grows up to 60 feet with a spread of 40 to 50 ft. 6 to 8 ft. trees. Each, \$2.75.

AMERICAN ELM. A splendid tree for boulevard planting or a yard. Graceful and of upright habit. Grows 80 to 100 feet high. 6-8 ft. size, \$2.75; 1½ to 1½-inch diameter, \$4.50; 1½ to 2-inch caliper trees, each, \$6.50.

BASSWOOD OR LINDEN. Has large heart-shaped leaves and fragrant white blossoms. A fine lawn tree. Hardy and fast grower. 6 to 8-foot trees, each \$3.50.

BIRCH, CUT-LEAF WEEPING. A striking, erect tree with slender drooping branches and finely cut leaves. The bark is white like the ordinary native birch. 6 to 8-foot size, each, \$6.00.

BIRCH, WHITE. A medium sized tree native to Minnesota. The white bark is enchanting the year around. 6 to 8 feet. Each, \$3.50.

CRAB, DOLGO. A beautiful ornamental tree, absolutely hardy. Produces an abundance of small red crabs. The trees are free from blight and very attractive with a mass of red fruit. 4 to 5-foot size, each, \$2.50.

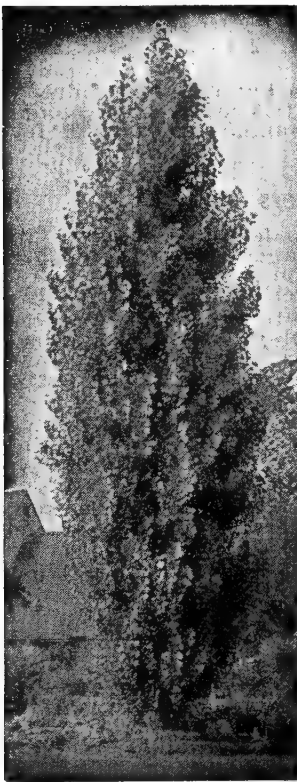
CRAB, HOPA. A very ornamental tree. Red blossoms completely cover the tree in early spring. Fruit is small, red inside and out. 5 to 6-foot size, each, \$3.00.

CRAB, RED SILVER. See Page 36.

MAPLE, CRIMSON KING. (Pat. No. 735.) Rich purple foliage is retained until leaves drop in fall. A great improvement over Schwedler Maple, but a slower grower. 5 to 6-ft. size. Each, \$4.75.

MAPLE, SUGAR OR HARD. A tall and symmetrical tree, hard wooded, long lived and extremely hardy. The bright green leaves turn to brilliant colors of scarlet and yellow in the fall. Growth is medium fast. 6 to 8-foot size, each, \$4.75.

MAPLE, SCHWEDLER'S. A very ornamental shade tree. The foliage is dark red in the spring and gradually softening to bronze, then turns to green later in the season. 6 to 8-foot trees, each, \$6.50.



Lombardy Poplar

MAPLE, SOFT OR SILVER. A very rapid growing tree. The finely cut leaves show their silvery sides when turned by breezes. Grows 60 feet. 6 to 8 feet. Each, \$2.75.

MOUNTAIN ASH. (European.) The foliage and clustered fruits makes this a very beautiful lawn tree. Bright red berries, white flowers. Grows 30 feet high. 6 to 8-foot trees. Each, \$3.00.

POPLAR, BOLLEANA. A tall, slender tree. Leaves are dark green on the upper surface and white beneath. The bark is silvery gray. Grows 80 feet high. 6 to 8-foot trees. Each, \$2.25.

POPLAR, LOMBARDY. Very similar to the Bolleana except in color of leaf and bark which is green. Grows 100 feet tall. 6 to 8-foot trees. Each, \$1.50; 10 for \$13.50.

WALNUT, BLACK. A majestic tree that not only bears choice nuts, but is also a grand shade tree of fine form. A slow grower. Will attain a height of 100 to 150 feet. 6 to 8-foot trees. Each, \$3.00.

WILLOW, NIOBE WEEPING (Salix alba). A small tree, with graceful, golden, drooping branches. It is one of the best of the Weeping Willows. 6 to 8-foot size. Each, \$2.75.

Seedling Windbreak Trees

Deciduous—Per 100

Ash, Green	18-24 in.	\$4.75;	2-3 ft.	\$ 6.75
Caragana	18-24 in.	7.25;	2-3 ft.	10.50
Elm, American	12-18 in.	3.65;	18-24 in.	4.75
Elm, Chinese	18-24 in.	4.75;	3-4 ft.	9.50
Poplar, Lombardy	2-3 ft.	6.50;	3-4 ft.	8.50

Evergreens listed below are transplants with lots of roots and good tops, at very low prices.

SPRUCE	Size	25	50	100
Black Hills	6-9 in.	\$6.95	\$12.95	\$24.95
Colorado Blue	6-9 in.	6.95	12.95	24.95
Norway	6-9 in.	5.95	10.95	19.95
Norway	9-12 in.	6.95	12.95	24.95
Norway	12-18 in.	9.95	17.95	34.95

Add 25c for postage and packing on mail orders within the 3rd zone, for each 100 trees, or less.

Hedges

Transplants—Heavy Stock

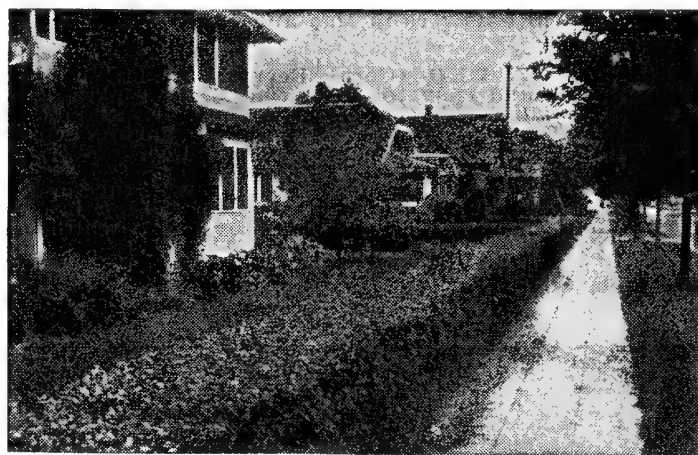
Plant living, lasting fences. Walls and fences are generally expensive but a fine green hedge may be had at a small cost and will add much to the beauty of the home, both summer and winter.

ALPINE CURRANT. A very dense-growing hedge with fine dark green leaves. Will grow to a height of 3 or 4 feet. The yellow flowers which open in May are very fragrant. Very desirable where the soil is somewhat dry. 12 to 15 in. Each, 60c; 10, \$5.40; 100, \$45.00.

BARBERRY (Berberis Thunbergi). Dwarf hedge, attractive and effective. 18 to 24 in. Each, 60c; 10, \$5.40; 100, \$50.00.

BUCKTHORN. Best sheared low hedge, or free growing tall hedge. May be trained from 18 inches up. Very hardy. 2 to 3-foot size, each 65c; 10, \$5.90; 100, \$45.00.

CARAGANA ARBORESCENS (Siberian pea tree). An excellent hedge plant. Especially suited to light soils and sunny locations. The beauty of its foliage makes it desirable for planting in groups or in masses behind other low growing shrubs. Bright green pea-like leaves. Grows 8 to 12 feet high. 2 to 3-foot size, each, 45c; 10, \$4.00; 100, \$30.00.



A Hedge Adds Much to the Beauty of the Home Surroundings

COTONEASTER. When a hedge of medium height is wanted this is one of the best to plant. The leaves are a rich green and very glossy which adds to the beauty of the plant. 18 to 24 in. size, each, 65c; 10, \$5.85; 100, \$50.00; 2 to 3-foot size, each, 80c; 10, \$7.25; 100, \$65.00.

LILAC, Common Purple. Heavy rooted, 18 to 24-inch plants. Each, 70c; 10, \$6.30; 100, \$50.00.

Asparagus Roots

In preparing the bed for asparagus roots, the soil should be worked up at least 12 inches deep and a very heavy application of well-rotted manure or commercial fertilizer should be given. Make furrows ten inches deep and spread roots 18 inches apart in row and cover with two inches of soil, gradually filling as shoots appear until surface is level. Do not cut any later than June 20th until the third or fourth year.

MARY WASHINGTON OR PARADISE.

1 yr. old. Doz., \$1.00; 25, \$1.50; 100, \$4.25; 250, \$9.00.

2 yr. old. Doz., \$1.20; 25, \$1.95; 100, \$4.75; 250, \$11.00.

Postage 20c for first doz.; 3c for each additional doz.

Rhubarb Roots

The planting of rhubarb roots instead of seed saves both time and labor, especially for the home garden. Do not pull the stocks the first year after planting, except the blossom stock. These should always be kept down, as they take the strength from the rest of the plant.

Medium size roots. Each, 25c; doz., \$2.50.

Large size roots. Each, 40c; doz., \$4.00.

Add 25c for mailing within the 3rd zone for one root; 10c for each additional root.

Valentine. The new, mildest and sweetest of red rhubarbs. Tops them all. Fine for freezing. A vigorous grower, rich in flavor. Each, \$1.00.

MacDonald Red. This is a great improvement over the old standard variety. Quality is tops with a fruity flavor and much sweeter than the old kind. A quick grower and heavy yielder. Each, 60c; 5 for \$2.75.

Chipman's Canada Red. Another new hardy sort, that is deep red all the way through. Sweet and fine flavored. Each, 80c; 5 for \$3.50.

Apple Trees (5 to 7 Ft.)

- BEACON.** Developed by the Minnesota Agricultural University. A deep red apple of good size and quality that ripens early. Each, \$1.50; 10 for \$13.50.
- CORTLAND.** A McIntosh seedling of the same high quality but is a better keeper, also fruit hangs on tree better. Each, \$1.50; 10 for \$13.50.
- DELICIOUS.** A very high quality apple suitable for southern Minnesota. Each, \$1.50; 10 for \$13.50.
- DUCHESS RED.** Season, July and August. A vigorous growing, hardy tree. Fruit is large, bright red. Each, \$1.50; 10 for \$13.50.
- FIRESIDE.** One of the best. Some say it has no equal. A hardy Delicious. Nearly solid red when fully colored. Colors slowly. A good bearer every year. Season January to April. Each, \$1.50; 10 for \$13.50.
- HARALSON.** Season, January to April. Has been aptly called the Northwest's best winter apple. Tree vigorous and very productive. Each, \$1.50; 10 for \$13.50.
- LAKE LAND (Minn. No. 978).** A new introduction of the Univ. of Minn. Fruit Breeding Farm. Of the Wealthy type, an annual bearer, fruit well colored, well spaced on tree and hardy throughout Minnesota. Each, \$1.50.
- MCINTOSH.** Season, October to January. One of the finest apples grown. Because of its brilliant deep red color, delicious flavor, crisp snow-white flesh and distinct pleasant aroma many people prefer it to all other varieties. Each, \$1.50; 10 for \$13.50.
- MINJON.** (Minn. No. 700.) An apple closely resembling Jonathan in size, color and form. It is very hardy, very productive and ripens soon after Wealthy. Good eating and cooking quality. Each, \$1.50; 10 for \$13.50.
- MINNETONKA BEAUTY (Pat. 474).** A late very hardy winter apple of good size and exceptional quality, an exceptional keeper. Color a bright, attractive, medium red over yellow. Each, \$1.50; 10 for \$13.50.
- NORTHWEST GREENING.** Season, November to June. Splendid for cooking. Each, \$1.50; 10 for \$13.50.
- PRAIRIE SPY.** It is a medium to large apple, ripening late, and an exceptionally good keeper. Fruit covered with carmine red stripes and is very attractive. Quality good. We do not recommend planting it in Northern Minnesota as the season is not long enough to properly mature the fruit. Each, \$1.50; 10 for \$13.50.
- REDWELL.** This late Fall apple is an annual bearer of bright, solid red fruits and hangs to tree well. A fine apple for eating, pies and sauce. Each, \$1.50; 10 for \$13.50.
- VICTORY.** Of the McIntosh type, a week later, more firm in flesh, better color and keeps at least a month longer than McIntosh. You will like Victory. Each, \$1.50; 10 for \$13.50.
- WEALTHY.** Season, September to January. One of the best market and home orchard varieties for Minnesota. Fruit medium to large, beautiful red in color and good flavor. Each, \$1.50; 10 for \$13.50.

Crab Apple Trees (5 to 6 Ft.)

- CHESTNUT (formerly Minn. No. 240).** This large desert crab has met general approval because of hardiness, productiveness and excellent quality for eating fresh or for sauce, pickles, and pies. The color is an attractive bronze red, season is early September. Each, \$1.50.
- DOLGO.** It is absolutely hardy and very prolific, producing an abundance of small red crabs, which make a perfect jelly even when fully ripe. A beautiful ornamental tree. See Page 38.
- HOPA.** A very ornamental tree. Red blossoms completely cover the tree in early spring. Fruit is small, red inside and out. See Page 38.
- HYSLOP.** Dark rich red fruit of large size and sub-acid flavor. Each, \$1.50; 10 for \$13.50.
- RED SILVER.** Fruit is bright red and maroon leaves with under side silver colored. Each, \$2.50.
- TRANSCENDENT.** A well-known variety of hardy crab. A good pickling and jelly crab. Has a tendency to blight. Each, \$1.50; 10 for \$13.50.
- VIRGINIA.** Very hardy and a vigorous grower, does not blight, fruit good for pickling or jelly. A prolific, annual bearer. Each, \$1.50; 10 for \$13.50.
- WHITNEY.** A fine crab for eating purposes or sweet pickles. Fruit of red color. Each, \$1.50; 10 for \$13.50.

Pear Trees (5 to 6 Ft.)

- Pears require the same soil and cultivation as apples. Pruning and spraying also similar.
- PARKER. (Minn. No. 1)**—This probably is our most dependable pear. Introduced by the Minnesota State Fruit Breeding Farm and has proven of real value. We recommend it for general planting in the South half of Minnesota and in favorable locations in Northern Minnesota. Fruit is large, color is yellow with distinct blush. Flesh tender and juicy. Quality very good. Each, \$1.85.
- MENDEL.** Mendel is another hardy pear. Tree is a vigorous grower and practically resistant to blight. Fruit is medium size and good quality. Color, yellow. Mendel yields heavy and is considered by many to be equal to Parker. Each, \$1.85.

Pollenizers for Minnesota Plums

It is necessary to plant one or two pollenizing plums with any of the Minnesota hybrids in order to get good yields. It has been found that the Minnesota hybrids do not fertilize one another.

Plum Trees (5 to 6 Ft.)

- ELLIOTT.** A large, dark red freestone plum. Tree is hardy, and a heavy yielder. Each, \$1.65; 10 for \$14.85.
- KAGA.** One of the best pollenizers for Minn. Hybrids. Kaga is a very high quality, heavy yielding plum. Especially good for canning. Each, \$1.65; 10 for \$14.85.
- MOUNT ROYAL.** A new variety, heavy bearing freestone of medium size fruit, purplish-black and excellent for all purposes. Each, \$1.65; 10 for \$14.85.
- PIPESTONE (Minn. No. 218).** A new, very large, productive, early midseason variety of excellent quality for dessert and culinary purposes. Yellow with a red blush. Each, \$1.65; 10 for \$14.85.
- SUPERIOR.** Considered one of the best mid-season plums. Fruit is large, beautiful red, flesh firm, of exceptional quality. Each, \$1.65; 10 for \$14.85.
- UNDERWOOD.** One of the best plums for general growing. The fruit is large, of an attractive red color, with a firm, juicy, golden yellow flesh. Season, late July and early August. Each, \$1.65; 10 for \$14.85.
- WANETA.** Prof. Hansen's best plum. Very large, dark red overlaid with blue. Fruit of splendid flavor. Hardy and a heavy bearer. Each \$1.65; 10 for \$14.85.

Hardy Cherry Trees (5 to 7 Ft.)

The Hardy Cherries that we offer are results of crosses between plum and cherry. The trees are hardy. The fruits possess the Cherry flavor and are not bothered by the birds. Will not fruit without a pollinizer.

- COMPASS.** Compass is an early fruiter, bearing the second year. It is indispensable as a pollinizer for Sapa and Oka. It is a very hardy tree and thrives in nearly any sort of location. The fruit is especially good for jams and for canning. Heavy yielder. Each, \$1.65; 10 for \$14.85.
- EARLY RICHMOND CHERRY.** Hardest of all pie cherries. This is the only true cherry that we offer. The fruit is of medium size and is borne in great quantities. Excellent for canning and pie. Fruit is dark red. Each, \$1.65; 10 for \$14.85.
- OKA.** This is one of the best of the Hybrid Cherries. Hardy cherry excellent in both the South and as far North as you wish to plant. Skin is black and flesh red. Fruit is very attractive, a heavy bearer. Of bushy habit and should be grown as a shrub. Each, \$1.65; 10 for \$14.85.
- SAPA.** A hardy tree bearing heavily, dark red with wine colored flesh fruit, excellent for sauce and preserves. Each, \$1.65; 10 for \$14.85.

Apricot Trees

The trees we offer are very hardy for our Minnesota climate, also drouth resistant. Bear generously, fruit of bronzy gold color and yellow flesh of pleasing flavor. Ripen usually the latter part of July. Plant two or more trees for pollenizing purposes. Each, \$2.25.

Careful spraying of fruit trees means perfect fruit and healthy foliage. It is not hard to do, either. Our free spray chart tells when to spray and what to use. Ask for it.

Hansen's Bush Cherry

Here is an easy-to-grow, hardy, dwarf bush that makes a beautiful shrub with gorgeous white flowers in the spring, and rich red and gold leaves in the fall. Fruit grows in clusters, plum-shaped, but the size of a sweet cherry. Fruit is good to eat from the bush, and makes wonderful jelly and jams. Bush usually bears the year after planting. 3 to 4 ft. size, each, \$1.00.

Nanking Bush Cherry

A very beautiful and attractive ornamental bush with its lovely compact foliage preceded by an abundant bloom of pink flowers. In June the bush is fairly covered with brilliant red edible fruit, similar to but smaller than the sour cherry. Finest quality cherries for pies, preserves, jams and jelly. Plant two or more bushes to insure pollination. Grow 5 to 6 ft. high. 2 to 3 ft. size, each, \$1.35.

Blackberry Bushes

ALFRED. A blackberry that has given good results wherever planted. Immense sized berries, practically coreless, heavy producers and very hardy. Worthy commercial variety, ripens over a long period of time. Each, 30c; doz., \$2.45; 25, \$4.50.

Currant Bushes

RED LAKE. The berry is very large and is borne on long stems forming exceptionally long, well filled bunches. The quality of fruit is very good, the ripening season is medium, and the plant a heavy yielder. While this variety produces large berries on long bunches, its most valuable quality is the sturdy upright type of bush. Because of the above qualities, Red Lake is the leading currant today. Each, 60c; 5 for \$2.50; 10 for \$4.50.

Gooseberry Bushes

PIXWELL. This a new, hardy variety that produces large bushes loaded with fruit. Berries are large, oval shape, of pleasing light green color turning pinkish when ripe. The berry stems have few thorns which makes picking easy. Each, 90c; 3 for \$2.50.

Berry bushes, grape vines and strawberry plants are from state inspected nurseries for your protection.

MORE STRAWBERRIES



The New Pyramid Way

From a small 6 foot space, you can produce with a Pyramid Garden, 50 quarts of strawberries in a season; enough for your table and some to put away in freezer for winter treats.

Pyramid Garden with complete instructions....\$ 9.95
Cover Supports 3.95
Transparent Cover 5.95

Strawberry Plants

JUNE BEARING

ARROWHEAD. (Formerly Minn. No. 1118.) A bright red, attractive June fruiting strawberry which has been highly vigorous and productive in tests at many and varied locations. It is a promising home and market variety. 25 for \$1.50; 50 for \$2.50; 100 for \$4.00; 250, \$7.75.

BEAVER. While not as high in flavor as Dunlap or Premier, Beaver is a firm berry and especially good for canning. Does best on sandy soils. Beaver yields early and heavy. 25 for \$1.25; 50 for \$2.00; 100 for \$3.00; 250, \$6.50.

DUNLAP. Mid-season. An old favorite. One of the best known and most widely grown strawberries in the north and eastern half of the United States. 25 for 95c; 50 for \$1.55; 100 for \$2.50; 500 for \$8.00.

PREMIER. A most popular June bearer. Ripens very early, productive and hardy, also a fair to good plant maker. Berries bright red, fairly firm, of good quality. 25 for \$1.10; 50 for \$1.80; 100 for \$2.90; 250 for \$6.00; 500, \$9.50.

EVERBEARING

RICH RED. The new sensational patented Strawberry that is a most remarkable grower and producer. Perfect for freezing. Planted early, you will get berries all summer and fall the first year. Field grown, 25, \$5.00; 50, \$8.50; 100, \$15.00. Potted plants, 12, \$3.75; 25, \$7.00; 50, \$12.50; 100, \$20.00.

BRUNES MARVEL. Berries are as large as the Gem or Mastadon and as sweet as the Wayzata. Sets runners freely. Stands dry weather well. Cultivate plants all summer. Keep bud clusters picked off from 6 to 7 weeks after planting, then let them bear the rest of the summer. 25 for \$1.75; 50 for \$3.00; 100 for \$5.00; 250, \$9.85.

EVERMORE. (Minn. No. 1166.) Is hardy and a good plant maker, as well as being a heavy producer. Fruit is medium to dark red and inclined to be tart. 25 for \$1.60; 50 for \$2.75; 100 for \$5.00; 250, \$9.85.

GEM. (Everbearing.) Berry is large and light red, of excellent quality. Very immune to disease. A good bearer. A dependable variety that sets runners well. 25 for \$1.80; 50 for \$3.00; 100 for \$4.75; 250, \$8.75.

STREAMLINER. Bears large sized fruit of excellent flavor. The healthy foliage and freedom from disease makes Streamliner outstanding. 25, \$2.00; 50, \$3.25; 100, \$5.00; 250, \$9.50.

SUPERFECTION. A new everbearer that growers say is one of the finest yet introduced. Grows well in almost any soil, large roundish berries, dark red all the way through, with a very delicious, sweet flavor. Berries are of very firm texture. A good plant maker. 25 for \$2.40; 50 for \$4.35; 100 for \$6.75; 250 for \$13.50.

WAYZATA. (Everbearing.) A hardy disease and frost-resistant variety. Fruit attractive and equal to the best June berries. 25 for \$2.75; 50 for \$4.75; 100 for \$8.50.

Raspberry Bushes (Extra Heavy)

CHIEF. The fruit, medium in size, bright red, firm. Ripens early and extends over a long period. Quality of fruit is excellent. The plants are vigorous in growth, perfectly hardy and seem to be resistant to mildew and mosaic. Heavy plants. Doz., \$2.45; 25, \$4.50; 100, \$14.00.

INDIAN SUMMER, EVERBEARING. A raspberry that produces a crop towards the end of June and another in late September, here in the St. Paul area. The berries are large, conical, medium red, rather soft and of good quality. Very disease resistant. Doz., \$2.45; 25 for \$4.50; 50, \$8.00; 100 for \$14.00.

LATHAM. (Minn. No. 4.) That great Minnesota Introduction—holds first place as a leading commercial and home variety of Red Raspberry. It is hardy everywhere, bushes are sturdy, upright, and vigorous, particularly resistant to disease of all kinds. The fruit is very large, dark red, and firm, heavy yielder, easy picker. Heavy plants. Doz., \$2.45; 25, \$4.50; 50, \$8.00; 100, \$14.00.

SUNRISE. One of the earliest to ripen, bearing large bright red berries that turn darker when fully ripe. Sunrise is very disease resistant. The berries pick easy, are very firm and juicy with a mild sub-acid flavor. Doz., \$2.45; 25 for \$4.50; 50 for \$8.00; 100 for \$14.00.

CUMBERLAND BLACK RASPBERRY. Very high quality and our hardiest Black Raspberry. Plant in a sheltered location or mulch over winter. Doz., \$2.45; 25, \$4.50; 50, \$8.50; 100, \$14.00.

Grape Vines—2-yr. Heavy Plants

Plant two or more varieties for proper pollenization.

AGAWAM. A large, dark red grape; pulp soft and sweet. Vines strong, hardy and productive. Ripens early. Mid-September. Each, 40c; 5 for \$1.85; 10 for \$3.50.

BETA. An excellent grape for Minnesota and the Northwest. The vines are as hardy as the wild grape, which means they do not require protection in the winter as many of the other varieties do. Fruit is black with blue and of the best quality to use for jelly and juice, as it has the wild grape flavor. Fruit is nearly as large as Concord, and a much better yielder in this climate. Ripens about the first of September. Each, 40c; 5 for \$1.85; 10 for \$3.50.

BLUE JAY. (Minn. No. 69.) This grape has very compact, large clusters of berries, about the same size as Concord. They are dull black and covered with a bluish bloom. When first colored and apparently ripe, they are rather acid, but if allowed to remain on the vine for 10 to 14 days longer, they become mild and pleasing in flavor. Also good for making juice and jelly. This variety needs to be planted near some other variety that will furnish pollen. Each, 95c; 5 for \$4.00.

CONCORD. Purplish black skin, berries medium size in compact bunches. Highly resistant to drought, insects and disease. Season medium late here in the Northwest. Semi-hardy in Minnesota. Cover in the fall. Each, 40c; 5 for \$1.85; 10 for \$3.50.

MOONBEAM. (Minn. No. 66.) The color of the large berries is light greenish-white turning to yellow when very ripe. The vines are unusually vigorous and easy to propagate. The clusters are seldom above medium size, but berries are fully as large as Concord. The skins are extremely tender. Each, 95c; 5 for \$4.00.

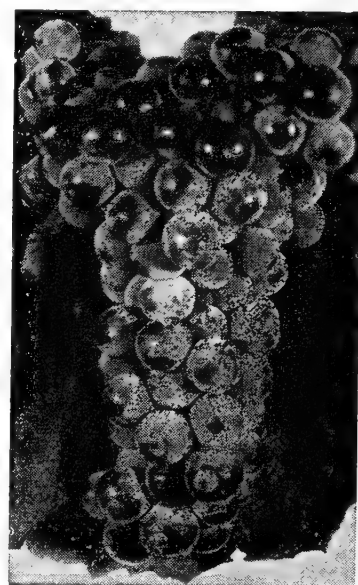
MOORE'S EARLY. Berries are large, jet black, similar to Concord, but ripen about two weeks earlier. Each, 40c; 5 for \$1.85; 10 for \$3.50.

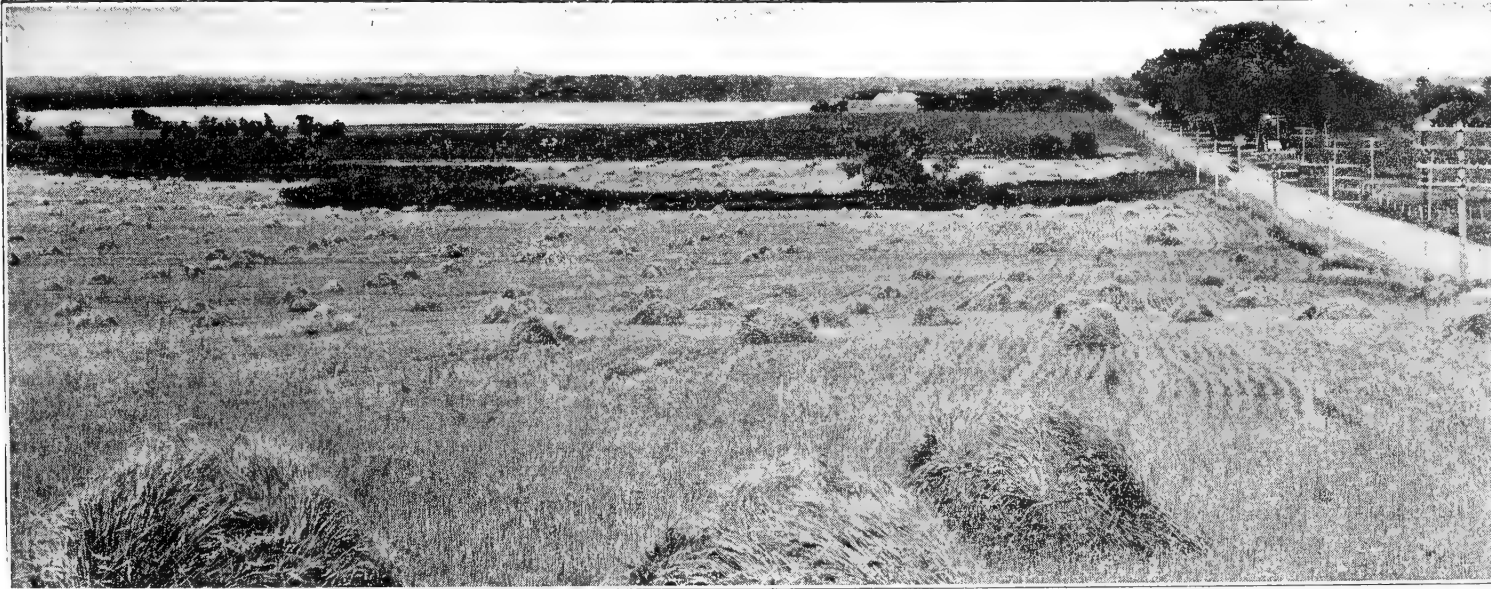
NIAGARA. Best of the white varieties, large compact bunches of greenish-white berries change to pale yellow when fully ripe. A heavy producer of good quality fruit, matures medium late. Each, 40c; 5 for \$1.85; 10 for \$3.50.

RED AMBER. (Minn. No. 45.) This red grape is considered by many as having the best quality of any. The vines are vigorous and clean in appearance. The berries, smaller than those of Concord, borne in clusters of medium size. At the Fruit Breeding Farm they ripen in early September. The flavor is very sweet and rather spicy and of exceptional quality. Each, 95c; 5 for \$4.00.

Boysenberry (Thornless)

It is a cross of the raspberry, blackberry and loganberry; berries almost seedless, sweet and of finest flavor and about two inches long. Make wonderful jelly, jam and pies. Train to stakes like grape vines. Lay canes down and cover with hay or straw in the fall for winter protection. Plants, each, 35c; doz., \$2.45; 25 for \$4.50.





FIELD SEEDS

Prices are given on Special Field Seed Price Lists issued during the season. See Yellow List enclosed with catalogue.

ALFALFA

Sow 12 to 15 lbs. to the acre, drilled.

NORTHLAND CALIFORNIA. Non-winter hardy, ideal to plant with peas early in spring as nurse crop. You can get one cutting of hay in August and still have a good green manure to plow under in the fall. Costs about half the price of hardy Alfalfa.

GRIMM. One of the oldest and best known of the winter hardy varieties, but is very susceptible to bacterial wilt and is losing favor because of this.

RANGER. One of the newest, resistant to bacterial wilt. Is also the best variety for winter hardiness; some stands are now 10 years old. Yield is about equal to Grimm. This variety now leads the alfalfa list.

COSSACK. A variegated Alfalfa that is almost identical to Grimm in appearance and performance.

LADAK. As Winter hardy as Grimm and produces an excellent first crop of hay. Is slow in recovering after cutting.

CLOVER SEED

Prices given on Special Yellow list.

MEDIUM RED CLOVER. This is the recognized standard of the clover family. It produces two crops each year. The first is generally harvested for hay when in full bloom. The second crop may be harvested for seed, cut for hay, or plowed under for fertilizer. Sow 6 to 12 pounds to the acre.

ALSIKE OR SWEDISH CLOVER. One of the hardiest varieties known. It is perennial and does not winterkill. It will do better on moist land than any other variety of clover, and is suitable for either hay or pasture. When sown with other grasses, it forms a thick undergrowth and greatly increases the yield. It is frequently sown both with medium Red Clover and with Timothy, and the quality of hay thus produced is excellent. It is fine stemmed and leafy and quickly cured.

MAMMOTH RED CLOVER. This variety is grown mostly for pasture and for soiling. It is a very vigorous grower, but is not desirable for hay unless cut when quite young.

WHITE OR DUTCH CLOVER. A low close growing clover, with round white heads. Very fragrant and desirable for beautifying the lawn. It will stand close cutting and very rapidly throws up an abundance of leaves and blossoms. It is usually better to sow with other grasses. Does well on most any soil.

LADINO. Grows 10 to 14 in. tall. Leaves and flowers are two to four times the size of white clover. Principal use is high quality pastures. Should be grown with other grasses and legumes on fertile soil well supplied with moisture.

SWEET CLOVER, YELLOW BLOSSOM. This variety grows finer and more spreading than the white and is not so tall. It matures more quickly than the White Clover and for a second season the hay crop is probably preferable because of its finer stems.

HUBAM SWEET CLOVER. An annual white blossomed Sweet Clover which is popular in areas where Fall plowing is customary. It is less efficient than the biennial types as a nitrogen fixer but since it dies at the end of the first season, it presents no problem of eradication when Fall plowed as do the biennial types.

BIRDSFOOT TREFOIL. A rather short growing, long lived perennial legume not recommended where other Clovers do well, but of considerable value as a supplementary legume in pastures where soils are not so well adapted to Alfalfa and Ladino.

GRASSES

Prices given on Special Yellow list.

KENTUCKY BLUE GRASS. Will outlive any other grasses for pasture or lawn, but should not be cut or pastured too closely in extremely hot, dry weather. The seed is very slow in germinating, therefore, it is advisable to plant with other varieties of quicker growing habits. Makes a sweet and nutritious pasture for all stock.

RYE GRASS, ANNUAL. Is a very quick growing grass and for that reason makes an excellent pasture. It thrives on rich, moist land, where from three to four cuttings may be made in a season. Grows very quickly and will stand close pasturage.

RED TOP. As a hay crop, Red Top is next to Timothy in importance. It will do the best on rather moist soil, but will thrive on most any soil. It is a good variety to sow with Timothy or Clover for meadow or pasture, and is more permanent than either of the other two.

CRESTED WHEAT GRASS. Recommended highly by farm authorities as being one of the most drought-resistant grasses. Grows fast in cool weather, but is more or less dormant in extreme hot weather. When used for pasture, no amount of abuse seems to stop its growth. For hay and pasture, compares favorably with Bromus Inermis. Sow at rate of 12 lbs. to the acre.

ORCHARD GRASS. Is an early fibrous rooted perennial. Its rapid growth makes it very desirable for pasture. Withstands droughts better than most grasses. Will thrive in the shade such as in orchards and lanes. When closely cropped, it grows up quickly again.

Inoculate all Legume Seeds with

NITRAGIN

OVER FIFTY YEARS OF SERVICE

When ordering, Always state name of seed.

COMBINATION (AB)		SOYBEANS (S)	
Size	Retail	Size	Retail
1 bu. each	.....\$ .50	2 bu. each	.....\$ .35
2 bu. ea.	..... .90	5 bu. each	..... .55
ALFALFA (A)		25 bu. each	..... 2.50
Swt., Bur. Hubam Clover		(One can)	
1 bu. ea.	.....\$.50		
CLOVERS (B)		BEANS (D)	
Red, Alsike, Crimson,		Navy, Pinto, Wax,	
White and Ladino.		String, Kidney and	
1 bu. each	.....\$ .50	Great Northern	
LESPEDEZA (L)		1 bu. each	.....\$ .50
100 lb. size (Inoculates			
up to 100 lbs.)	..\$.50		
PEAS, (C)		PEANUTS,	
VETCHES(All Varieties)		COW PEAS (E)	
100 lb. size (Inoculates		2 bu. each	.....\$ .35
up to 100 lbs.)	ea.\$.50	5 bu. each	..... .55
GARDEN SIZE—Peas, Beans, Sweet Peas, Lupines,			
Lima Beans and Edible Soybeans.			
Enough for 8 lbs. seed — Retail Price 15c each			

ALTA FESCUE. A very deep-rooted perennial grass that stands dry weather extremely well. Does well in rich or poor soil. Blades are wider and lighter colored than Blue Grass. Germinates in 7 to 10 days. Used for pastures and lawns.

CHEWINGS FESCUE. A fine leaved perennial, somewhat wiry, of bright green color. Does well in shade. Germinates in 10 to 14 days. Used for lawns in shaded areas and pastures.

CREeping RED FESCUE. Similar to Chewings Fescue but does not tend to bunch. It spreads by underground runners. It's a hardy perennial, germinating in 10 to 14 days. Use for lawns, fairways, pastures.

MEADOW FESCUE. Especially suited for pasture and is also fine for hay. Succeeds even in poor soil and will endure severe freezing. The hay is very nutritious and cattle thrive on it.

BROMUS INERMIS (Brome Grass). Its main points are its ability to control soil erosion, add humus to the soil, loosen the subsoil and serve as a good hay and pasture crop. Brome Grass is a long lived perennial which will grow well on any fertile soil. While ordinarily not grown for hay purposes it does compare favorably with Timothy in the yield and quality of hay. As a pasture grass either alone or in combination, it is palatable to all classes of livestock, is extremely hardy and drought resistant. It is one of the most productive of perennial grasses, starting early in the spring and continuing succulent until late in the fall. It remains green and palatable through mid-summer when most other pasture grasses are in a rest or dormant period. It does better when the growth is allowed to become rank, and the rank growth continues palatable even to fairly advanced stages of maturity. When Bromus is seeded alone the use of 20 pounds of seed per acre is recommended and the seeding should be shallow—never over $\frac{1}{4}$ to $\frac{1}{2}$ inch except possibly in sandy soil.

TIMOTHY. As a hay crop Timothy is probably unsurpassed by any other grass. It is an ideal grass to be grown with Alsike. It is also valuable in pasture mixtures but is not suited as a permanent pasture except with other grasses and legumes. Sow 10 pounds of seed to the acre.

TIMOTHY AND ALSIKE MIXED. For those who prefer to sow Alsike Clover and Timothy together, we have a mixture that has the right proportions for growing a splendid hay crop.

SUDAN GRASS. This hay and pasture crop is a native of Africa and therefore it is necessary for the soil to warm up in the spring before planting the seed. It may be sown as late as July or August but its season will then be quite short. It is usually big enough to pasture when five or six weeks old, or sooner if it gets 12 to 14 inches tall. It grows remarkably well during the hot dry weather of July and August. As a hay crop Sudan should be cut from the time the heads begin to appear until the seeds are in the soft, dough stage. The best hay is from the early cutting. Sudan grass is an annual, lacking underground root stalks. Two cuttings can be obtained under favorable conditions, and may yield from 2 to 5 tons of cured hay per acre. If for hay, sow about 25 to 30 pounds to the acre broadcast. For silage, sow 10 pounds to the acre in rows and cultivate the same as corn.

REED CANARY GRASS. A hardy, perennial grass adapted to low lands where other grasses will not do well. It thrives in locations where the water table is practically at the surface of the soil all the time and above the surface part of the time. Will produce two crops a year after the first year. The hay is as good as Timothy and is relished by horses and cattle. Sow 4 to 6 pounds to the acre broadcast or 2 or 3 pounds with drill.

MILLET

Prices Given on Special Yellow List.

Millet is grown almost exclusively in these northern states for hay only, and we find that southern grown millet seed will produce a much heavier crop of finer hay than that grown from northern seed. We therefore offer only true southern grown seed in our millets. Sow at the rate of 25 to 30 lbs. to the acre for hay; for seed, about 15 pounds.

EARLY FORTUNE. One of the proso millets that matures in 50 to 60 days after sowing. Seeds reddish brown, head compact. Sow 25 pounds to the acre.

GERMAN. The most popular of all millets. Should be cut in full bloom, when it is most tender and sweet. Sow about 35 pounds to the acre.

HUNGARIAN. Is favored by some on account of its rapid growth, maturing about a week or ten days earlier than German Millet. Makes excellent hay.

JAPANESE. It grows from five to nine feet in height, and produces enormous crops of fine hay. If sown broadcast, sow fifteen to twenty pounds to the acre; in drills at the rate of ten pounds per acre. It does best on low, moist ground.

SIBERIAN. Earlier than either German or Hungarian. Very valuable for the North. Is extremely hardy and drought resistant. Excellent for hay and is not subject to rust.

FIELD CORN

Dependable seed corn must meet three important qualifications: Germination, Maturity and High Yielding Inheritance. A high degree of germinating vigor is necessary to overcome unfavorable planting conditions. Dependable seed corn should mature in the average season in the area in which it is to be planted. A thorough understanding of requirements of each area based on long experience is necessary. Only by continued comparisons of yielding ability of various strains of the same variety can one be sure of high yielding ability. That is why Kingscrot Hybrid is so outstanding.

Hybrid Corn

Hybrid seed corn is a first generation cross between inbred strains. Inbred strains are developed by continual inbreeding of selected plants for several generations over a period of better than 10 years. Yields of hybrid planted seed corn will average from 7 to 11 bushels per acre higher than the regular varieties. Hybrids possess greater resistance to lodging, greater resistance to drought and considerable higher shelling percentages.

Kingscrot Hybrid Minn.

100 Day Seed Corn

This remarkable hybrid improvement represents many years of extensive research aimed at a superior development for the 100 to 105 maturity zone. In maturity it compares favorably with standard strains of the variety Minnesota 13. Kingscrot KS attained the seemingly impossible by combining into one hybrid a rare stalk breakage resistance, high yield, and earliness of maturity. No longer is it necessary for northern corn belt farmers to risk the hazards of growing later hybrids for the increased yield. Kingscrot KS developed on an entirely new hybridizing principle has demonstrated in official state trials that it can yield and surpass in standability leading hybrids which are as much as ten days later in maturity. Prices given on special yellow list.

K F—Hybrid Semi-Dent

A cross between flint and dent varieties, recommended for 80-day areas. Leafy, non-suckering tall plants, high ears and stalk strength insure fall standability. Prices are given on special list.

Hybrid Silo

107 days

Here is a corn for silage that will give you a maximum of yield. The quality of the ear corn and foliage is unsurpassed, and of the highest feeding value. Prices listed on yellow price list.

N. K. & Co.s Elephant Fodder

Of the yellow dent type, but grows taller and more leafy than the average yellow dent corn, therefore producing a very heavy yield. See yellow price list for prices.

Treat All Seed Grain with New Improved Ceresan. Improves Stands; Increases Yield, from 6 to 18%. Costs only a few cents per acre. New Improved Ceresan Prices Listed on page 46.

OATS

Prices given on Special Yellow List.

CULTURE. Sow oats at the rate of 2 to 2½ bushels to the acre, very early in the spring on a well prepared field with a modern grain drill. Deep seeding on heavy clay soil is often fatal to the crop. Two inches is deep enough on a fine, compact seed bed.

ANDREW. Is an early maturing, open panicle, yellow grained oat that has excelled in yielding ability in trials throughout the Corn Belt. It has good weight per bushel and standing ability. It is similar to Clinton in height of plant. It is resistant to crown rusts and smuts and nearly all stem rusts. It is a Minnesota Sta. introduction.

AJAX. An early White Oat variety introduced from Canada. Has moderate straw strength and good stem rust resistance, but only fair resistance to leaf rust and smut. Yields in the northern half of Minnesota and North Dakota have been very good. A very desirable variety for planting in the northern half of Wisconsin and Minnesota.

BONDA. An early, stiff strawed variety having yellowish-white grain of superior bushel weight. It is resistant to stem rust, crown rust, smut. Recommended for Minn., Wisconsin, Iowa and Dakotas.

MINDO. A variety developed by the Minn. Sta. and released in 1946. Mindo produces a yellowish-white oat. It is an early maturing variety having stiff straw and high bushel weight. Mindo is resistant to stem rust including race No. 8 and leaf rust and the smuts. It is also resistant to Helminthosporium Victorii. Recommended for Minnesota, Wisconsin, Iowa and the Dakotas.

CLINTON. An early yellow variety resistant to rust and smut. Has excellent straw and weight. Recommended for Minn., Wisc., Iowa and Dakotas.

SOY BEANS

See Yellow List for prices.

Soy beans are one of the most valuable crops one can raise. As a hay crop, soy beans are higher in protein content than clover and equal to alfalfa hay. Are excellent for silage grown with corn. Do not plant too early; about corn planting time or later. Inoculate seed with Nitragin before planting. Cover seed lightly.

CULTURE. For silage, the usual amount of corn is planted and soy beans added at the rate of 10 pounds per acre.

For hay, plant 60 to 90 pounds per acre in rows 20 to 36 inches apart. Harvest when pods are well filled and leaves commence to turn. Allow to wilt in swath, then rake up and place in small cocks. Curing sometimes requires several days and should be thorough. Soy beans drop their leaves quite easily and should be cut before any number have fallen. They should be handled as little as possible to retain the most leaves.

For hogging-off plant 30 to 60 pounds per acre in rows 20 to 42 inches apart.

MANDARIN. This variety is especially recommended for northern areas as it matures in 95 to 110 days. The pods of round yellow beans are held higher from the ground than most Soy Bean varieties.

MANCHU, WIS. 606. This popular variety is especially recommended for the Northwest for hay, dry beans, as well as planting with corn for silage. Beans are yellow, of medium size and mature medium early. Yields of beans will average around 25 bushels to the acre.

New Improved Ceresan. For wheat, oats, barley, rye, sorghums, millets and flax, to control certain smuts and other seed-borne diseases. Usually reduces seed decay and seedling damping-off of flax, peas and sugar beets. See page 46 for price of Ceresan.

FIELD PEAS

Prices given on Special Yellow List.

Are not only profitable as a dry shelled crop, but may also be used for hay, pasture, or soiling with excellent results. Peas are second only to clover in their soil enriching properties and can be grown under almost any condition of soil or climate. Seed at the rate of 2½ to 3 bushels to the acre.

CANADA YELLOW FIELD PEAS. The standard field pea of the Northwest, and needs no description. It is always in demand either as a dry pea for cooking, or for pigeons.

MARROWFAT FANCY. Vines grow 4 to 5 feet high bearing long, round pods with 5 to 7 large round peas. Yields abundantly.

SUNFLOWER

Mammoth Russian

Are especially useful in the poultry run, as the large leaves furnish shade for young chicks; also, the seeds make a good addition to the poultry ration. They are very rich in oil and protein and are splendid to feed during the moult and winter months. They are also valuable for hogs. Sow 2 to 3 lbs. to the acre. Prices given on Yellow price list.

BUCKWHEAT

Buckwheat can be sown as late as July and still produce a crop, or it may also be plowed under for soiling. Sow ½ to 1 bushel per acre, as late as possible, and still have crop well developed before severe frosts occur. Light, well-drained soils are best for this crop.

Common

Seed is a rich dark brown and larger than Silver Hull. It resists drought and blight very well and produces seed early. Refer to Yellow lists for prices.

BARLEY

Prices given on Special Yellow List.

Treat seed with New Improved Ceresan or Ceresan M at the rate of one-half ounce of the chemical dust to each bushel of Barley. Plant as early in spring as a good seedbed can be prepared; sow 1½ to 2 bushels per acre. Sow Barley on well drained, loam soil. Apply 200 to 300 pounds of commercial fertilizer per acre where needed.

MOORE. A six-row, white, smooth awned variety with a moderately compact head. It is suitable for either malting or feed. Yields slightly more than Wisc. 38 and the straw lodges somewhat less. Moderately resistant to spot blotch and mildew but is susceptible to leaf rust, stipe, loose and covered smut.

WISCONSIN NO. 38 (BARBLESS). A smooth awned barley developed by the Wisconsin station. Resistant to barley stripe. Has a large head and plump kernel and stands the heat and dry weather better than other varieties. Many yields of 40 to 50 bushels are reported. A fine malting variety. Sow at the rate of two bushels to the acre.

Useful Farm Information

We have bulletins on alfalfa, Ranger Alfalfa, Ladino Clover, Sweet Clover, Soy Beans, Forage crop Silage, Brome Grass, Hybrid Field Corn, Sudan Grass, Reed Canary Grass, Birdsfoot Trefoil. Write or call for any Bulletin you are interested in.

FLAX

See Special Yellow List for prices.

Flax can be sown only about once in six or seven years on the same ground. It is a splendid crop to grow on new breaking, for it not only produces a good paying crop but it also helps to prepare the soil for future crops, leaving ground in a nice mellow condition. Before sowing, it is especially important to have the ground well firmed. Sow 25 to 30 pounds to the acre, as early as possible and yet avoid the last killing spring frost. It is also recommended that it be seeded in the latter part of April or early part of May instead of the latter part of May and early part of June. Early seeding of these Wilt-resistant varieties helps to overcome the Wilt and Rust.

RED WING. A variety somewhat earlier than Bison and recommended for Central and Southern Minnesota. Red Wing was developed by the Minn. Agric. Sta. Seed is medium size and gives a very high quality oil.

B 5128. Large seeded, late maturing, tall growing and high yielder. Similar to Bison, moderately wilt resistant and excellent rust resistant.

KOTO. A tall growing Flax which shows much promise. It has been a high yielder and fairly rust resistant. Produces oil of good quality. Maturity Mid-Late.

WHEAT

Prices given on Special Yellow List.

Sow at the rate of 75-90 pounds to the acre.

HENRY. A Feed Wheat. Recently developed by Wisconsin, a superior yielding wheat which can successfully be planted with oats. It matures about five days later than Vicland Oats. Henry is moderately resistant to black stem rust, and leaf rust, while moderately susceptible to scab and covered smut. It has a moderately stiff straw. Kernels are large and of soft texture as a rule.

MIDA SPRING WHEAT. A new bearded variety of Spring wheat. It resembles Rival a good deal in field appearance. Is early in maturity, has a stiff straw, and is resistant to leaf rust. It has a deeper colored grain that thrashes easily. In general performance, it has shown up better than Regent.

LEE BLUE TAG SPRING WHEAT. Early, bearded, moderately resistant to bunt, leaf or stem rust. Little susceptible to loose smut. Short medium strength straw. Equal to Thatcher for milling and baking. Developed by Minnesota in cooperation with U. S. Department of Agriculture. Recommended.

MARQUIS. A beardless, mid-late, strong strawed wheat with medium height, susceptible to stem rust and leaf rust but resistant to loose smut. A good milling and baking variety for Minn., Dakotas and Mont.

RYE

Prices given on Special Yellow List.

EMERALD. Developed by the Minn. Exp. Sta. for Northwest growing. Has greenish colored seed, long heads and is strong strawed. Grows medium tall.

IMPERIAL. One of Wisconsin's newest releases. It was developed for a colorless seed and produces a medium tall plant similar to Rosen.

ROSEN. Is adapted for the southern portions of rye producing areas, where winters are not too severe. It is a good variety there.

RAPE

Dwarf Essex

An annual forage plant which may be eaten off by any kind of livestock, but it is pre-eminently adapted for cattle and swine. A good crop will furnish at least 12 tons of green feed an acre. Thrives best on good soil, rich in vegetable matter. Slough lands are excellent. Sow broadcast, 5 pounds an acre or sow in rows thirty inches apart and cultivated 1 to 2 pounds an acre.

Rape may be sown as late as July 1st, and produce a fall pasture. Prices given on special field seed price list.

SPELTZ

While not quite equal to oats, it makes a fair horse feed. It yields more than wheat or barley and even the straw if cut slightly green has a good amount of feeding value. Speltz makes a fine feed for hogs and poultry. Sow in drills at the rate of 1½ to 2 bushels to the acre. Prices are given on special field seed price list.

SORGHUM

EARLY BLACK AMBER SORGHUM. A fine variety for cane production for the making of syrup. Plant in rows and cultivate the same as corn. Sow 2 to 5 lbs. of seed to the acre. Prices given on special yellow price list.

WACONIA ORANGE. An improved strain over the Amber Sorghum. Stalks are shorter but much sturdier and withstand the storms much better against lodging. Produce a high quality syrup. See special list for prices.

INSECTICIDES and FUNGICIDES



ACME ALL ROUND SPRAY. For roses, flowers, shrubs, vegetables and fruit trees. A one application protection against both insects and fungi such as rose chafer, thrip, black spot, downy mildews, leaf spot, many rusts, Japanese beetle, leafhopper, flea beetle, aphids, cabbage worm and many others. Suitable for dusting or spraying. 1 lb., \$1.10; 4 lb. carton, \$3.50.

ANIMAL REPELLENT ROPE. All animals hate the odor. Repels dogs, cats, rabbits. Rope can be used to circle flower bed or shrub. Rope not affected by rain. Tin of 100 ft., \$1.50.

ARMITE-15W. For control of red spider and mites on evergreens, roses, shrubs, shade trees, etc. 4 oz., \$1.00 (makes 16 gals.).

ARSENATE OF LEAD. For control of leaf-eating insects on fruit trees, vegetables, flowers, bushes and for killing grubs and earthworms in the lawn. Price: 1 lb., 72c; 4 lbs., \$1.86; 24 lbs., \$10.00; 48 lbs., \$19.00.

BENZO FUME (Pressure Fumigator). For the control of greenhouse red spider. Case of 12-1 lb. cans, \$5.50; 6-1 lb., \$3.00; 1 lb., 60c; 12-1/2 lb. cans, \$3.20; 6-1/2 lb., \$1.75; 1/2 lb., 40c.

BLACK FLAG. Spray repellent for flies and mosquitoes; also destroying roaches, waterbugs and ants: Liquid, 1/2 pt., 15c; 1 qt., 39c; 1 gal., \$1.39. Powder, 1/4 oz., 10c; 2 1/4 ozs., 25c; 5 oz., 49c.

BLACK LEAF 40. This is a 40% Nicotine, valuable for the control of plant lice and other sucking insects. It kills by contact and penetrating fumes. 1 oz., 35c; 5 ozs., \$1.05; 1 lb., \$2.45; 2 lbs., \$4.15; 5 lbs., \$7.40; 10 lbs., \$12.65.

BLACK LEAF 40 ROTENONE DUST. A combination of rotenone and sulphur, that kills by contact and fumes. Also controls lice and fleas on cattle and pets. 1 lb., 35c; 4 lbs., \$1.25; 25 lbs., \$5.15.

BLACK LEAF 40 GARDEN DUST. Contains Nicotine, Rotenone and Pyrethrum for control of many chewing and sucking insects. 1/2 lb., 65c; 1 lb., \$1.15.

BORAX (Refined). Used as a soil conditioner. 10 lbs., \$1.25; 25 lbs., \$2.00; 50 lbs., \$3.50; 100 lbs., \$6.50.

BORDEAUX. Controls blight, rot, mildew, scab, anthracnose and certain other fungus diseases. It stimulates plant growth and almost every kind of vegetable, fruit and shrub can be greatly improved by the early use of Bordeaux. 1 lb., 50c; 4 lbs., \$1.35; 48 lbs., \$15.00.

BORERKIL. A preparation that kills borers in trees, shrubs, etc. Also a dog repellent. 2-oz. tube, \$1.00.

BUG BLASTER DUST GUN. A one-dust control of insects and fungus on vegetables and flowers. 8 oz. size, 69c; 2-lb. refillable carton, \$1.98; 2-lb. refill, \$1.29 (postage extra on mail orders).

CALCIUM ARSENATE. The cheapest arsenical insecticide and of great economy and efficiency to combat chewing insects on potatoes, vegetables, etc. Price: 1 lb., 35c; 4 lbs., 60c.

CALCIUM CHLORIDE (Dow Flakes). Absorbs basement moisture, also keeps dust down on paths, driveways, tennis courts, etc. 25 lbs., \$1.25; 100 lbs., \$3.98; 1,000 lbs., at \$3.75 a hundred.

CARCO X. For control of ants, slugs, termites, wireworms, carrot worm, root maggots, nematodes and other insects. Price, 1/2 pt., \$1.00; 1 pt., \$1.50; 1 qt., \$2.45; 1 gal., \$5.95; 5 gal., \$25.00.

CHAPERONE (Dog Repellent). Powder: For keeping dogs off rugs and furniture. Odorless to humans and does not stain, but is repulsive to dogs. 1 oz., 50c; 3 ozs., \$1.00. Liquid: For outdoor and garden use. Keeps dogs away from trees, shrubs and plants, 4-oz. size, 60c; 8 oz., \$1.00; 12 ozs., \$1.25; 1 qt., \$3.00; 1 gal., \$8.00.

6% CHLORDANE DUST. For dusting in gardens and on lawns to control ants, cutworms, chinch bugs, chiggers, earwigs, slugs, snails, sowbugs, sod webworms, wireworms, white grubs, including Japanese beetle grubs, root infesting maggots and many others. In the home for cockroaches, ants, silverfish, carpet beetles, crickets, etc. 1 lb., 60c; 4 lbs., \$1.50.

CHLORDANE-45. For gardens, field crops, trees, orchards, dogs (controls mange), farm livestock, farm buildings, the home. Kills grasshoppers, ants, roaches, aphids, flea beetles, plum curculio, many others.

Spray gardens and animals with 1 part to 200 parts water. 1 oz., 39c; 4 oz., 75c; 1/2 pt., \$1.25; 1 pt., \$1.95; 1 qt., \$3.25; 1 gal., \$8.15; 5 gals. at \$7.85 per gal.

CHLORDANE-COLORADO 44. Up to 15 times more effective than DDT. Kills grasshoppers, roaches, ants, silverfish, earwigs, squash bugs, ticks, grubs, cornborer and soil infesting insects, by contact, eating or vapor.

Octa-Kill, for household and garden pests. 1 pt., 79c. Concentrate. For field and garden crops and animals. Mix with 200 parts of water. 1/2 pt., \$1.45; 1 pt., \$2.45; 1 qt., \$4.25; 1 gal., \$13.95.

5% Chlordane Dust. 5 lbs., \$1.95; 50 lbs., \$10.00.

COPPER SULPHATE (Blue Vitriol) Powder. Is used for making Bordeaux Mixture by dissolving 4 pounds Blue Vitriol and 4 pounds Hydrate or Stone Lime in 50 gallons of water. This will make a 4-4-50 Bordeaux. By using 5 lbs. Blue Vitriol and 5 lbs. lime one can make a 5-5-50 Bordeaux. 1 lb., 35c; 4 lbs., \$1.00; 10 lbs., \$2.00; 25 lbs., \$4.00; 50 lbs., \$7.50; 100 lbs., \$13.50.

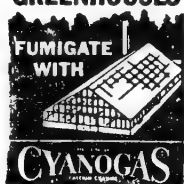
CORROSIVE SUBLIMATE, OR MERCURY BICHLORIDE. Very effective against seed-borne diseases of potatoes, cabbage, cucumbers, etc., also for the control of root maggot in cabbage, cauliflower, radish and other allied crops. 1 oz., 65c; 1/4 lb., \$1.75; 1 lb., \$4.00; 5 lbs., \$15.00.

CROW REPELLENT—G & O. Saves re-seeding by protecting planted corn from crows, pheasants, gophers, squirrels and other rodents. 1 pt., 60c; 1 qt., \$1.00.

CYANOGENAS (Calcium Cyanide). Cyanogenas A. Dust. For ants, moles, rats, gophers. Grade "A" Cyanogenas is recommended because of its ease of application and high efficiency. Highly recommended for rat control. 1 lb., \$1.00; 5 lbs., \$3.75; 25 lbs., \$12.50; 100 lbs., \$30.00.

Cyanogenas Ant Killer. Ants die instantly when you drop a little Cyanogenas Ant-Killer into the entrance of nest. 4 ozs., 40c.

GREENHOUSES



Cyanogenas G. Fumigant. Insects which do not yield to stomach poisons as a rule can be controlled by fumigation and Cyanogenas G. is a standard for greenhouse fumigation. Ease of application, high-efficiency and low cost have gained for Cyanogenas G. Fumigant the endorsement of leading growers all over the world. 5 lbs., \$3.75; 25 lbs., \$12.50; 100 lbs., \$30.00.

DEE DEX "25". Outdoor mosquito spray, lasts for weeks. Contains no DDT. Harmless to lawns, plants, shrubs, bees and birds. 1 pt., \$1.49; 1 qt., \$2.49; 1 gal., \$7.95.

DENDROL. A miscible oil for Dormant and Delayed Dormant spraying of Fruit and Shade trees and shrubbery. We have an interesting booklet on Dendrol and its uses. 1 qt., 75c; 1 gal., \$1.75.



DIMITE. Quick contact control of red spider and mites on evergreens, flowers and trees. 1 oz. makes 6 gals. of spray. 2 oz., 69c; 1 qt., \$5.00; 1 gal., \$14.00.



DOGZOFF. Protects your evergreens, trees, plants, birds, lawns from dogs, cats, moles, mice, rabbits, etc. There is nothing offensive to humans about Dogzoff. Price, 3 oz., 75c; 1 pt., \$2.50; 1 qt., \$4.00; 12 oz. Aerosol dispenser, \$2.25.

DORMATONE. Prevents sprouting, softening and shriveling of potatoes and other root crops in storage. 1 lb. treats 11 bushels. 12 oz., \$1.00; 5 lbs., \$5.50; 20 lbs., \$16.00.

EMO-NIK. A contact insect spray combining nicotine in its most active form. For control of aphids, mealy bugs, red spider, thrip, white flies, rust mites, mildew, certain scale insects and other garden pests. Price: 4 1/4 ozs., 45c; 1 pt., 90c; 1 qt., \$1.40; 1 gal., \$3.50.

DDT DUSTS AND LIQUIDS

DuraDust No. 50—A high grade wettable dust. 1 lb., 90c; 4-lb. bag, \$2.40; 50 lbs., \$26.00.

Garden DuraDust. Ready to use dust for home gardens containing DDT and copper fungicide. Effective against certain insects, as leafhoppers, corn ear worm, rose chafer, 1-lb. sifter carton, 50c.

Niagara 5% DDT Dust. 1 lb., 50c; 4 lbs., \$1.10.

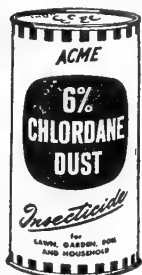
"Deenate" 75-W Residual. 75% DDT powder to mix with water (1 to 2 lbs. to 100 gal.) for spraying animals and farm buildings as well as crops. 1 lb., \$1.25; 4 lbs., \$3.25.

"Deenate" 25-R. Emulsified oil to be mixed with water DDT-25%. As spray for farm buildings, reduce to a 5% DDT solution by mixing 1 qt. to 1 gal. water. Against cattle lice, mix 1 qt. to 30 gals. water. 1 qt., \$1.25; 1 gal., \$4.00; 5 gals. at \$3.50 a gal.

"Deenate" X-10. DDT-Dust, 10%. 1 lb., 50c.

Pestroy 25% DDT Concentrate. A low cost concentrate for control of insects in barns, poultry houses, dairies, factories, washrooms, etc. Price: qt., \$1.49; 1 gal., \$4.69.

Pestroy 6% DDT Liquid for control of flies, mosquitoes, ants, bedbugs, cockroaches, etc. Apply with brush on screens, doorways, etc. 3 oz., 39c; pt., 69c; qt., \$1.19. Powder, 10%—3 oz., 39c.



Du Pont Garden Products

Floral Dust, 8-oz., 79c; 1 lb., \$1.15; 3 lbs., \$2.65; 4 lbs., \$3.50.
Vegetable Garden Dust, 8 oz., 79c; 1 lb., \$1.15; 3 lbs., \$2.65; 4 lbs., \$3.50.
Rose Dust (sulfur & ferimate) 8 oz., 69c; 1 lb., \$1.00.
Fruit Tree Spray, 1 lb., \$1.15; 3 lbs., \$2.75.
Tomato Dust, 2 lb. bag, 85c.
Dormant Spray Oil, 1 qt., \$1.15.
Crab Grass Killer, 7½ oz. size, \$1.00; 30 oz. \$2.95.
2,4-D Lawn Weed Killer, 8 oz. size, \$1.00; 32 oz., \$2.95.
Fungicide A, 6 oz., size can, 85c.



one operation. Just a few strokes of this dust gun and your plant is covered with a protecting film. Dust gun comes to you all filled and ready for use.

End o Pest Dust Gun and Cartridge..85c
 End o Pest Refill Cartridge.....65c
 End o Pest 2-lb. Refill.....\$1.79
 End o Pest House Plant Sifter Top Can.25c

EVER GREEN. A Pyrethrum spray. Deadly to many varieties of both sucking and chewing insects in the home garden—such as aphids (plant lice), leaf hoppers, cabbage worms, Mexican bean beetles, and rose slugs. Will not harm the most tender foliage. 1 oz., 35c; 6 ozs., \$1.15; 16 ozs., \$2.45; 1 qt., \$4.10; 1 gal., \$12.60; 5 gals., at \$11.60 per gal.



FERMATE. Specific for black spot on roses, leaf spot on chrysanthemums, snapdragon rust, anthracnose of tomatoes and brown on cherries. For use against all fungi and mildews. 8 oz., 75c; 3 lbs., \$2.75; 50 lbs., \$40.00.

FLIT SURFACE SPRAY WITH 5% DDT. Is a residual spray that should be applied to walls, ceilings, screens and other surfaces. It kills insects over a long period of time. Pt., 39c; qt., 65c; gal., \$2.25.

FLIT AEROSOL INSECT BOMB (DDT & Pyrethrum). One of the most modern and easy to use ways to kill Flies, Mosquitoes and most flying insects. Price, \$1.39.

FORMACIDE (Formaldehyde Dust). A triple strength seed and soil disinfectant used as a control of damping-off; also makes seedling plants stronger and healthier. Controls Oat Smut and seed-borne diseases of grain. ½ lb., 50c; 1 lb., 85c; 5 lbs., \$2.50; 25 lbs., \$10.00.

FORMALDEHYDE. For protection against seed-borne diseases. Will prevent potato scab, oats smut and stinking smut of wheat, also onion smut. 1 lb., 40c; 1 qt., 75c; ½ gal., \$1.35; 1 gal., \$2.00. Ask for price on larger quantities.



tomatoes. 2/5 oz., 25c; 2-oz. can, \$1.00; 12-oz. can, \$5.00.

FRUIT TREE SPRAY. A single spray material for the control of chewing insects and fungous diseases. Use as dust or spray. 1 lb., 80c; 3 lbs., \$1.40.

GARDEN GUARD. Noninjurious to humans yet effective both by contact and as a stomach poison against insects. Especially recommended for use on cabbage, cauliflower, string beans, currants, and sweet corn.

Pyrethrum Garden Guard. 4 lbs., \$1.00.

Rotenone Garden Guard. 1 lb., 50c; 4 lbs., \$1.25; 50 lbs., \$9.50.

GRAFTING WAX. This has an even consistency which will give best results for sealing cuts or bruises in fruit and shade trees. ¼ lb., 35c; ½ lb., 60c; 1 lb., 90c; 5 lbs., \$3.75.

GRAPE DUST. Especially recommended for mildew on roses and grape vines. Preferable applied with duster. 1 lb., 40c; 5 lbs., \$1.50.

6-12 INSECT REPELLENT. Prevents mosquitos, fly, flea and chigger bites. Odorless, non-irritating, no grease or oil. 49c per bottle.

KOPPER KING. Is a basic copper sulphate, a fungicide requiring no lime to keep it from burning. Kopper King contains 50% copper, twice as much as ordinary copper sulphate (common bluestone). Can be used either as a liquid spray or combined with a carrier in making a homemade dust. Price: 1 lb., 60c; 4 lbs., \$1.40.

Please add postage to mail orders, unless marked post-paid. Due to present conditions, all prices in this book are subject to change without notice.

KOPPER QUEEN. A copper spray for the control of mildew, leaf spot, and black spot on rose bushes, flowers, and many other kinds of foliage. Stainless, leaves no unsightly residue. Use as a liquid spray replacing Bordeaux Mixture and Sulphur. Price: ½ pint, 35c; pint, 60c; qt., 90c.

LETHANE B-72. A fast-acting contact spray for aphids, leafhoppers, and thrips. 5 lbs., \$2.25.



LIME SULFUR POWDER. For use in dormant spraying against scale, peach blight, leaf curl and twig borer. Summer spraying against scab, blotch, red spider and mite. Price: 1 lb., 60c; 5 lbs., \$2.50; 12½ lbs., \$3.25; 100 lbs., \$25.00.

LIME-SULPHUR, CONCENTRATED SOLUTION. Requires no preparation other than stirring into water. One of the best remedies for San Jose scale. 1 qt., 60c; 1 gal., \$1.80; 5 gals., \$8.50. Barrel price on application.

METHOXYCHLOR. Safe to use on the most tender plants. Kills cabbage worm, beetles, etc. 8 oz., 75c.

MOSQUITROL. Mosquitos and gnats eliminated outdoors by this spray solution. Apply on lawns, around shrubbery, etc. Will not harm foliage or flowers. 1 lb., \$1.75 (makes 12 gals. of spray). 5 lbs., \$7.75.

NAPHTHALENE FLAKES Repels such soil pests as: wire worms, maggots, moles, gophers, etc. It can be used without burning or flavoring even the most tender root crops. Highly recommended by bulb growers for protection against thrips, white fly and certain other insects. Refined. ½ lb., 30c; 1 lb., 45c; 5 lbs., \$1.75; 10 lbs., \$3.00; 25 lbs., \$6.00; 100 lbs., \$22.50.

NICO FUME LIQUID. A solution of free nicotine for greenhouse fumigation. 1 lb., \$2.60; 2 lbs., \$3.45; 8 lbs., \$11.95.

"NICO-FUME" PRESSURE FUMIGATOR. Tobacco Powder. A greenhouse fumigant, effective for destroying aphids, thrips, etc. The one-pound can will fumigate about 25,000 cubic feet—a house 80 to 100 feet long, 25 feet wide, averaging about 10 feet high. 1 lb., 85c; six 1-lb. cans, \$4.15; case of twelve 1-lb. cans, \$7.95; ½ lb., 60c; six ½-lb. cans, \$2.50; case of twelve ½-lb. cans, \$4.60.

NO-SEED HORMONE Blossom-set

Produce ripe tomatoes weeks earlier. Seedless, better tasting and more tomatoes.

Just spray the blossoms. Keeps blossoms from falling... Increases yield on beans, berries. Effective on peppers, cucumbers, eggplant, squash also. TESTED and PROVED by Universities and Experiment Stations. 4 oz., 75c (makes 1 gal.); pint size, \$1.75.

Ogen Products

Fume-Ogen. A dog and cat repellent in powder form, effectively repels animals from garden, greenhouse and home. 8-oz. shaker can, 50c.

Fungtrogen. Controls mildew, black spots and other fungus diseases on roses and other plants; also stimulates vigorous plant growth. 4-oz., 45c; 8-oz., 75c; 1 pt., \$1.25; 1 qt., \$2.00; 1 gal., \$6.00.

Mologen. A powder to rid your place of moles the easy way. Highly recommended. ½-lb. can, 50c.

Terogen. For autumn-winter soil treatment. Will give your roses a better start next year. In successful use for more than twenty years. 1 lb., 75c; 2 lbs., \$1.25; 5 lbs., \$2.75.

Tri-Ogen Liquid Spray gives complete protection against all plant insects and diseases, including black-spot, mildew, aphids (plant-lice), slug worms, caterpillars, etc. Especially recommended for roses, asters, snapdragons, carnations, hollyhocks, delphiniums, phlox, chrysanthemums, zinnias, dahlias, and many other plants.

E-Kit. Protects 6 to 10 roses for season.....\$1.35

A-Kit. Protects 12 to 20 roses for season..... 2.25

B-Kit. Protects 50 to 80 roses for season..... 6.00

C-Kit. Protects 100 to 160 roses for season..... 9.00

D-Kit. Protects 400 to 600 roses for season.....30.00

Tri-Ogen Dust. For those who prefer to dust rather than spray, Tri-Ogen Dust serves the same three-way purpose as Tri-Ogen Spray. 1 lb., 85c; 5 lbs., \$3.50.

Add Postage on Mail Orders.

PARIS GREEN. For combating the potato bug and other chewing insects. Price: ¼ lb., 25c; 1 lb., 75c; 5 lbs., \$3.35; 25 lbs., \$15.00.

P. D. SPRAY. The best spray to kill the box elder beetle. Kills mosquitos, spiders, flies, moths, fleas, ants, bedbugs, roaches. 12 oz., 25c; pt., 35c; 1 qt., 60c; ½ gal., \$1.10; 1 gal., \$2.00.

POMO-GREEN (new). The old favorite in a new combined insecticide and sulphur fungicide, green in color, for use as a dust or spray, for the control of Black Spot and mildew, also chewing and sucking insects on roses and other plants. 1 lb., \$1.00; 4 lbs., \$3.00.



RABBIT REPELLENT-G. & O. Here is a powder when applied around plants will discourage any ambitious rabbit. 1 lb., 50c; 5 lbs., \$1.75.

Red Arrow Garden Spray

Highly concentrated Pyrethrum-Rotene-Soap Spray. Has excellent spreading and sticking qualities when mixed with water. Harmless to humans, birds and pets when sprayed. Kills many varieties of both sucking and chewing insects. Does not leave poisonous residue on food plants. 1 oz., 35c; 4 oz., \$1.00; 1 pt., \$2.85; gal., \$18.00.



RED RIVER POTATO MIX WITH DDT.

DDT has been added to this outstanding product to make it better than ever. Now controls leaf hopper and psyllid as well as potato bugs, flea beetles and aphids. Controls early and late blight. Spray or dust. The all-around, economical potato mixture. 1 lb. bag, 80c; 4 lb. bag, \$2.60.



RODENT REPELLENT—PETER RABBIT. Protects fruit trees and shrubbery from rabbits, mice, etc. It will remain effective throughout the winter. Liquid, 1 pt., 85c; 1 qt., \$1.50; 1 gal., \$4.50.

ROOTONE

Reg. U. S. Pat. Off.

A Hormone Powder for Rooting Cuttings, Bulbs, Seeds. Dust with Rootone before planting to give faster, better, more successful rooting. Easy to use. ¼ oz. packet, 25c; 2-oz. jar, \$1.00; 1-lb. can, \$5.00. **ROOTONE F.** Has fungicide added to control damping-off. 1 lb., \$5.00.

ROSETONE. A combination of hormones and vitamins to insure success and quick starting of roses. Soak roots with Rosetone before planting. ½ oz., 25c; 3 oz. \$1.00.

ROTECIDE. Both a contact and stomach poison. Kills mealy bug, beetles, thrips, aphids, etc. 1 oz., 35c; 8 ozs., \$1.00; 1 pt., \$1.75; 1 qt., \$3.00; 1 gal., \$8.00.

ROTENONE GARDEN SPRAY (NNOR). This Double Action Garden Spray makes the killing power of Rotenone more effective. It penetrates the hairy and waxy covering of insects. 1 oz., 35c; 6 oz., \$1.00; 16 oz., \$2.15.

SCALECIDE. A dormant spray to control scale, aphids, mites and other pests on hedges, shrubs, evergreens, etc. 1 gal., \$2.75.

Seed Disinfectants

ARASAN. For most vegetables, grasses, corn and legumes as a dry application. ¾ oz., 25c; 8 oz., \$1.00; 2 lbs., \$3.20; 4 lbs., \$6.00; 25 lbs., \$30.00; 100 lbs., \$115.00.

ARASAN SF. Slurry treats vegetables, grasses, corn and legumes. 3 lb. bag, \$5.20.

CERESAN NEW IMPROVED. 4 oz., 50c; 1 lb., \$1.30; 4 lbs., \$4.35; 100 lbs., \$85.00.

CERESAN-M. Dry or slurry. 14 oz., \$1.25; 3 lbs., \$3.55; 40 lbs., \$35.85; 100 lbs., \$85.00.

SEMESAN—Vegetables. ½ oz., 20c; 2 oz., 60c; 12 oz., \$2.85; 25 lbs., \$72.65.

SEMESAN BEL—Potatoes. 2 oz., 50c; 1 lb., \$2.30; 4 lbs., \$7.50; 40 lbs., \$70.35; 100 lbs., \$166.00.

TERSAN 75—For lawns. 5 ½ oz., \$1.00; 3 lbs., \$6.75.

F-531. 1 lb., \$2.10; 25 lbs., \$37.50; 100 lbs., \$140.00.

SPECIAL SEMESAN. 1 ½ lbs., \$3.75; 25 lbs., \$52.05; 100 lbs., \$197.60.

SHEPS PLANT SPRAY. A non-poisonous spray that kills and controls nearly all garden insects. 1 ½ oz., 25c; ½ pt., 75c; 1 pt., \$1.35; 1 qt., \$2.25.

SLUG SHOT. Very popular insecticide; harmless to humans, or fruits and vegetables treated. Very effective in destroying cabbage and cauliflower worms, potato bugs and beetles, etc. 1 lb., 40c; 5 lbs., \$1.65; 25 lbs., \$5.00.

SNAROL, METALDEHYDE, ARSENICAL BAIT. Kills cutworms, sow bugs, grasshoppers, slugs, etc. A ready prepared poison that destroys those pests quickly. 1 lb., 35c; 2 ½ lbs., 75c; 6 lbs., \$1.50; 10 lbs., \$2.50; 50 lbs., \$10.00.

SPERGON GLADIOLUS DUST. Controls thrips and corm decay. Contains Spergon and DDT. 2 oz., 25c; 1 lb., \$1.50.

SPERGON, SEED PROTECTANT. A powder to be applied to seed before planting. Prevents seed decay and "damping off," particularly in cold wet weather. Recommended for peas, beans, corn and other seeds. 1 oz., 25c; 2 oz., 45c; 5 oz., \$1.00; 1 lb., \$2.25.

SOILFUME CAPS. A soil fumigant for control of wireworms and root nematodes in garden and greenhouse soils. 100 caps, \$2.00; 200 caps, \$3.25.

SPREADER—STICKER, GRASSELLI. Pt., \$1.25; gal., \$7.75.

SPREADER, ACCO. Casein-2 lb. bag, enough for 200 gals. of spray. Price, \$1.00.

STOP—for tree banding. Is a sticky substance used to band trees, shrubs, and vines to prevent insects from crawling up to the foliage. 1 lb., \$1.05; 7 ½ lbs., \$6.25.

SULPHUR CANDLES. For fumigating poultry houses, rooms, etc. Complete directions on container. Each, 45c.

SULPHUR DUSTING, WETTABLE. Use as a dust or liquid spray, to control mildew, leaf spot, black spot and rust on rosebushes, chrysanthemums, snapdragons, carnations, and certain other foliage; also red spider on evergreens. Price: 2-lb. carton, 59c. In bulk: 5 lbs., \$1.00; 10 lbs., \$1.50; 25 lbs., \$2.50; 50 lbs., \$4.50; 100 lbs., \$8.00.



TARTAR EMETIC. Recommended for gladioli thrip. Spray once a week after plants reach 6 inches in height with the following mixture: 8 level tablespoonfuls Tartar Emetic, 1 lb. brown sugar to 5 gal. water. Do not spray open blooms. 1 oz., 25c; ¼ lb., 55c; ½ lb., 95c; 1 lb., \$1.50.

TERRO ANT KILL. One of the oldest and best ant killers. Ants disappear over night. 25c and 50 cent sizes.

TERRO ROACH KILLER. Kills roaches and water bugs quickly. 4-oz. can, 35c.

TOBACCO DUST. May be used in the seed bed to prevent maggots. Especially valuable against root lice on asters and other plants. 1 lb., 30c; 5 lbs., 80c; 10 lbs., \$1.35; 25 lbs., \$2.95; 50 lbs., \$4.50; 100 lbs., \$8.00.

Tobacco Clippings. Same prices as above Tobacco Dust.

TOMATO DUST, ACME. A safe and effective dust for control of horn worm, fruit worm, early blight and late blight on tomatoes. Can also be used as a general garden dust on many other vegetables, also flowers and shrubs. 1 lb. Pump-gun package, 75c; 1-lb. sifter top can, 60c; 4-lb. bag, \$1.50; 50 lbs., \$12.50.

TRANSPLANTONE

Reg. U. S. Pat. Off.

The vitamin-hormone stimulant, 1 oz. makes 1,000 gallons solution. The most effective form of Vitamin B1. Use

on all kinds of flowering plants, vegetable plants, shrubs, seedlings or trees when planting. Multiplies roots and makes better plants. Effective in hard or soft water. ½ oz., 25c; 3 ozs., \$1.00; 1 lb., \$4.00.

Tree Tanglefoot

Should be applied to trees in March and April here in the Northwest, to control the canker worm and prevent it from stripping the leaves from shade and fruit trees. Also controls ants and other worms from crawling up the tree. 1 lb., \$1.50; 5 lbs., \$7.00; 25 lbs., \$26.50.



"43" FOR THE TREE. Compounds for use in tree surgery in healing injury or wounds in trees or shrubs. Use Plastic "43" for cavities—Liquid "43" to paint over surface wounds, pruned trees at sawed off limbs, etc. Also to coat around bottoms of trees to aid in preventing rabbits, small animals and insects from attacking the tree.

Paste. 1 lb., 45c; 2 ½ lbs., 85c; 10 lbs., \$2.50; 50 lbs., \$7.00.

Liquid. ½ pt., 35c; 1 pt., 60c; 1 qt., \$1.00; 1 gal., \$2.50; 5 gals., \$7.00.

VAPOTONE SPRAY. A new product primarily to control the red spider, mites and aphids. Has also proven effective against leaf eating worms, beetles, leafhoppers, immature scale insects, thrips, etc. 4 oz., \$1.00; 1 pt., \$2.50; 1 gal., \$11.90; 5 gals. at \$9.50 a gal.

VOLCK. An improved oil spray for nursery or garden. Controls mealy bug, scale insects, red spider and other garden pests. 4 oz., 35c; 1 pt., 75c; 1 qt., \$1.25; 1 gal., \$2.85.

WEED KILLERS

SULPHATE OF IRON, COPPERAS. Kills dandelions and weeds. Dilute 1 lb. to 1½ gallons of water. 1 lb., 15c; 2 lbs., 25c; 5 lbs., 60c; 10 lbs., \$1.00; 25 lbs., \$2.00; 50 lbs., \$3.00; 100 lbs., \$5.50.

WEED KILLER, ACME. Destroys weeds and all vegetation on driveways, clay courts, paths, etc. Also widely used on other noxious lawn weeds by application undiluted, using a weed cane or squirt-bottom oil can. Pt., 65c; qt., 90c; gal., \$2.40; 5 gal., \$9.00.

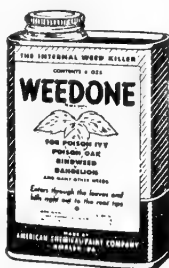
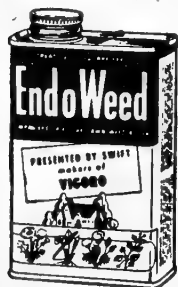
WEED KILLER, AMMATE (Ammonium Sulfamate). Highly recommended for the killing of poison ivy. Also kills ragweed, Russian thistle, Sow thistle, Canada thistle and other noxious weeds. Is non-poisonous and will not harm livestock or other animals in sprayed areas. Leaves no permanent soil effects. Kills tree stumps. 2 lbs., \$1.00; 6 lbs., \$2.70; 50 lbs., \$13.75.

WEED KILLER, HAMMONDS. Destroys weeds, poison ivy and all vegetation on roadways, paths and tennis courts. Dilute with 40 parts water. Apply with sprinkling can. Qt., 70c; gal., \$2.00; 5 gal., \$9.00.

CHICKWEED KILLER. One of the very best. 6 oz., \$1.00; 1 lb., \$2.00.

WEEDONE CRAB GRASS KILLER. Contains potassium Cyanate, non-poisonous to humans and animals. 6½ oz., \$1.00; 26 oz., \$3.00; 6½ lbs., \$8.85.

WEEDONE (2,4-D Dichlorophenoxyacetic Acid). The new scientific weed killer. Kills poison ivy, poison oak, bindweed (wild morning glory), Japanese honeysuckle, and many other noxious weeds. Sprayed on the leaves, it travels down to the root tips, killing the whole plant. Kills weeds in lawn without injury to lawn. 6 oz. (covers 1,000 sq. ft.), 75c; 1 qt. (covers 5,000 sq. ft.), \$2.50; 1 gal. (covers 20,000 sq. ft.), \$5.50; 5 gal. can (covers 100,000 sq. ft.), \$21.25; 54 gal. drum, at \$3.20 per gal.



NEW IMPROVED WEEDONE, 2,4-D and 2,4,5-T. 8 oz., \$1.00; 1 qt., \$2.75; 1 gal., \$6.75; 5 gal., \$25.00.

WEEDONE BRUSH KILLER 32. 1 qt., \$4.00; 1 gal., \$8.90; 5 gal., \$42.80.

ENDO WEED. Literally sprays weeds right out of your grass. The whole weed dies, leaves, stems, roots, in a week or so. Your grass continues to grow without a setback. ½ pint covers 2,000 sq. ft. of lawn area. ½ pt., 98c; 1 qt., \$2.69; 1 gal., \$7.50.

WEEDUST. An easy way to kill lawn weeds, just dust with Weedust, the 2,4-D weed killer. Kills dandelions, plantain, wild morning glory, chickweed, mustard and other weeds without injury to your grass. 12 oz. shaker top can. 75c.

SEL-TOX CRAB GRASS KILLER. It is "selective" and harmless to normal turf grasses. Apply as little as ½ oz. to 1 gal. of water. Price, 8 oz., \$1.00; 16 oz., \$1.50; 32 oz., \$2.50; ½ gal., \$4.75; 1 gal., \$9.00.

WEED-NO-MORE. Will free an average lawn of weeds at a cost of \$1.00. It kills broad-leaved weeds without harm to most common lawn grasses. Mixes with water and is easily sprayed on the lawn. The \$1.00 8 oz. pkg. treats 1,600 sq. ft. Qt., \$2.98, covers 6,400 square feet.

SHELL WEED KILLER NO. 1. This material has been widely used and is recommended by State Experiment Stations and Extension Services for weeding of carrots. The spray is applied shortly after carrots come up, usually when there are two to four true leaves. 1 gal., our jug, 40c; 1 to 5 gal., your jug, 33c; 10 gal. or more, 30c; 53 gal. drum, 25c; drums \$4.00 extra, returnable.

TCA-60 QUACK GRASS KILLER. 10 lbs., \$5.40; 50 lbs., \$23.50; 100 lbs., \$46.00.

TAT C-LECT CRAB GRASS KILLER. Kills young crab grass as well as mature plants. Absolutely safe on your good lawn grasses. Treat early. Price 8 oz., 85c; 16 oz., \$1.50; 32 oz., \$2.50; 64 oz., \$4.50; 1 gal., \$9.75.

ZOTOX—KILLS CRAB GRASS. Kills both the plant and seeds of crab grass and checks reinfestation. DOES NOT DESTROY LAWN GRASSES and is non-injurious to soil. A 16-oz. bottle treats 2,000 sq. ft. For "spot" treatment of small patches it goes much farther. Prices: 8-oz. bottle, \$1.00; 16 oz., \$1.50; 32 oz., \$2.50; 5 lbs., \$4.50. Ask for free leaflet.



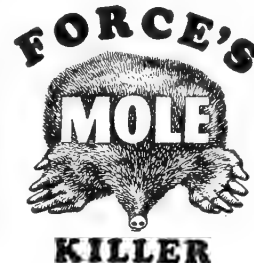
RODENT DESTROYERS

BLACK LEAF WARFARIN RAT KILLER. Try this new, tested, proven, complete rat control. ¼ lb., \$1.75; ½ lb., \$3.00; 1 lb., \$5.00.

RODAN—CONTAINS DUPONT ANTU. An appetizing bait that rats and mice can't resist. After eating this powerful rat-killing chemical, rats and mice rush outdoors to fresh air and water and die. 4 oz. pkg., 98c.

SWEENEY'S POISON WHEAT. Sure death to rats, mice, moles, and gophers. Price, 20c, 35c, and 75c, carton.

FORCE'S MOLE KILLER PELLETS will destroy the pests. Compounded from foods the moles naturally eat and containing a poison that is deadly to them, these pellets reach the pests right where they live—in the ground. And that's where they die. One application may be sufficient. 35-pellet size, 25c; 75-pellet size, 50c; 185-pellet size, \$1.00; 875-pellet size, \$3.25; 5 lbs., \$6.25.

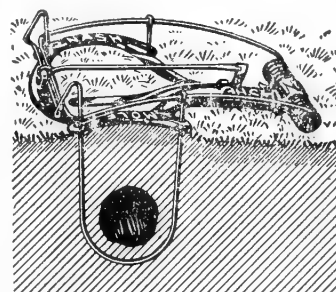


GOPHER DEATH. A poison in tablet form—easy to use. "Gopher Death" is made of food the rodents love. The poison is so carefully concealed in the tablets they do not detect it. Kills pocket gophers, ground squirrels, etc. Price, 75c.

CYANO GAS (Calcium Cyanide). Cyanogas A. Dust. For ants, moles, rats, gophers. Grade "A" Cyanogas is recommended because of its ease of application and high efficiency. Highly recommended for rat control. 4 oz., 40c; 1 lb., \$1.00; 5 lbs., \$3.75.

STEEL ANIMAL TRAPS. Chain attached for catching rats, gophers, weasels, muskrats, skunks, etc. Size 0, 35c; size 1, 40c; size 1 jump, 50c; size 1½, 75c; size 1½ jump, 75c; size 2, 85c; size 2 jump, \$1.00; size 3, \$1.25; size 4, \$1.65; size 2 coil spring, \$1.35; size 1½ fur stretch-er, 45c. Ask for prices by dozen.

THE NASH MOLE TRAP. Recommended by U. S. Biological Survey, catches the mole in all kinds of ground when properly set. Clods or stones cannot prevent perfect operation. This trap catches the mole when it comes from either direction. If properly set, you cannot fail with the Nash Mole Trap. \$2.85 postpaid.



E-Z TRIP MOLE TRAP. A simple, easy to set mole trap. This is one of the most satisfactory and easy-to-set traps we have ever handled. Each, \$3.00 postpaid.

MACABEE GOPHER TRAP. This is the most successful gopher trap ever offered. It is simple and easy to set, and a sure catch. Each, 45c.

FORCE'S GOPHER KILLER. Made in ready-to-use pellets is easy to use. Has no harmful effect on the soil or vegetation. Reaches these pests right where they live—in the ground. And that's where they die. Prices: 60-pellet size, 50c; 175-pellet size, \$1.00.

GOULD'S MINNESOTA GOPHER POISON. A pocket gopher poison put up according to the formula recommended by the University of Minn. If you are troubled with gophers try this proven remedy. Price, 85c.

RED CHECK RAT AND MOUSE EXTERMINATOR. Simple and easy to use. Prices: 25c, 50c and \$1.00 sizes.

DEATH TO MICE. Very effective. 1¼ oz., 25c; 4 oz., 50c; 6 oz., 75c; 8 oz., \$1.00.

RAT LUNCH, ready to use baits. 15 baits, 30c; 35 baits, 60c; 75 baits, \$1.15; 155 baits, \$2.25.

RAT-BOMBS. Relatively harmless to humans and domestic animals, yet very effective in killing rats. 15c and 50c sizes.

K-R-O (Kills Rats Only). This exterminator will rid your premises without endangering your pets, livestock, poultry, etc. Is harmless to animals other than rats and mice. Price, 75c. Ready mixed bait, 22 oz., \$1.00.

MOUSE AND RAT SEED. A seed treated with a chemical, that due to its peculiar flavor the mice or rats eat in preference to anything else. As soon as they eat the kernel, they go outside for air and water and die. Has been tested and approved by the Good Housekeeping Institute.

Mouse Seed. 1¼ oz., 25c; 1 lb., \$1.50. **Rat Seed.** 1 lb., 50c.

STEARNS' ELECTRIC RAT AND ROACH PASTE. To kill rats and mice apply Stearn's Paste on bread, cheese, meat or other food, for bait. Will also kill gophers and other rodents. Price, 35c; 40c by mail.

DEAD SURE RODENT DESTROYER. Kills gophers, squirrels, moles, rats or any animal that burrows in the ground. Gas Balls, 2 for 15c; doz., 85c; doz., postpaid, \$1.15. Tubular, 15c each; doz., \$1.25; doz., postpaid, \$1.35.



the PLANT FOOD CHOICE OF MILLIONS for LAWNS, FLOWERS, TREES, SHRUBS, VEGETABLES

now better than ever!

NEW PROCESS VIGORO

COMPLETE PLANT FOOD

Swift's new and exclusive process of manufacturing assures more uniform distribution of plant food elements. The ingredients are chemically hitched together in various combinations that give l-o-n-g, e-v-e-n feeding. Vigoro Complete Plant Food supplies all the vital elements plants need from the soil for the best growth and development. Vigoro is safe, sanitary and odorless.



VIGORO

COMPLETE PLANT FOOD

PRICES F. O. B. ST. PAUL

100 lbs., \$4.55	10 lbs., 95c
50 lbs., 2.80	5 lbs., 53c
25 lbs., 1.70	1 lb., 15c
Tablets, 15c	

When not priced for larger amounts, see Special Yellow Price List. Prices subject to change without notice.

ARMOUR'S ORNAMENTAL, 10-8-6. A high analysis fertilizer, especially recommended for trees and shrub feeding. 100 lbs., \$5.25.

Potting Earth

A scientific mixture of earth, peat, etc., to give you soil in which house plants will do their best, and thrive.

	10 lbs.	25 lbs.	50 lbs.	100 lbs.
All-Purpose	35c	\$.75	\$1.35	\$2.50
African Violets.....	75c	1.25	2.00	3.50
Tub. Rooted Begonias....	75c	1.25	2.00	3.50

AGRICULTURAL GYPSUM OR LAND PLASTER. Is a fertilizer containing calcium and sulphate sulphur. Also used as a dust against the cucumber beetle and squash bug by dusting on and around the plants when infested. 5 lbs., 25c; 25 lbs., 50c; 100 lbs., \$1.25.

ALUMINUM SULPHATE. For making the soil acid, needed for certain plants. Use one lb. to 10 sq. ft. of surface. 1 lb., 15c; 2 lbs., 25c; 5 lbs., 60c.

SHREDDED CATTLE MANURE. A good form of fertilizer where a supply of humus as well as fertilizing elements is needed. Suitable for soil mixing and liquid manure. 25 lbs., \$1.25; 50 lbs., \$2.25; 100 lbs., \$4.00.

SHEEP MANURE—PULVERIZED. A quick acting plant food for general use about the lawn, flower beds or garden. For lawns, use 50 pounds per 1,000 square feet. 5 lbs., 45c; 10 lbs., 65c; 25 lbs., \$1.00; 50 lbs., \$1.75; 100 lbs., \$3.50.

JOHNDELL SHEEP AND BONE MEAL. A mixture of these organic fertilizers. 4 lbs., 50c.

SULPHATE OF AMMONIA. A valuable fertilizer for all plants in which rapid growth or large leaf development is desired. 5 lbs., 65c; 10 lbs., \$1.00; 25 lbs., \$1.85; 50 lbs., \$3.00; 100 lbs., \$5.00.

PULVERIZED LIMESTONE. Sweetens, also improves the texture of the soil and liberates nitrogen and other plant foods, and stimulates bacterial action. 5 lbs., 30c; 10 lbs., 45c; 25 lbs., 55c; 100 lbs., \$1.25.

AGRICULTURAL LIME. Excellent for sweetening acid soils. 5 lbs., 35c; 10 lbs., 55c; 25 lbs., 75c; 50 lbs., \$1.10; 100 lbs. \$2.25.

DRICONURE—PLANT FOOD. The all-organic animal-manure in dehydrated and finely pulverized form. Use it for the lawn, shrubs, flower beds or vegetable garden. Can also be used as a liquid fertilizer. 7½-lb. bag, 75c; 50 lbs., \$2.55; 100 lbs., \$4.50.

HARDWOOD ASHES. Valued because of its high potash content. Has a tendency to drive away insects. 5 lbs., 50c; 10 lbs., 85c; 25 lbs., \$1.35; 50 lbs., \$2.00; 100 lbs., \$3.75.

STEAMED BONE MEAL SPECIAL (2-26-0). An effective fertilizer in gardens and orchards. Popular among greenhouse men for potting and for fertilizing bench stock. Apply 50 pounds per cubic yard for benching, pot plants, etc. 5 lbs., 75c; 10 lbs., \$1.35; 25 lbs., \$2.85; 50 lbs., \$4.00; 100 lbs., \$7.00.

RAW BONE. Does not break down or decompose as quickly as steamed but it is better for crops not needing quickly available food. It is excellent for rose beds, vines, shrubs and trees. 5 lbs., 85c; 10 lbs., \$1.50; 25 lbs., \$3.00; 50 lbs., \$4.75; 100 lbs., \$8.00.

IMPORTED HORTICULTURAL PEAT. It adds organic matter, improves the texture, conserves moisture and aerates the soil. 5 lb. bag, 90c; 15 lb. carton, \$1.95. Large bale, \$5.75; small bale, \$4.50; chubby size, \$2.75.

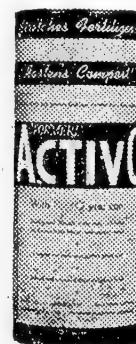
BLOOD MEAL. 13½% organic nitrogen. Readily available, finely ground. Use under glass where quick response is desired. 2 lbs. to 4 lbs. per 100 square feet. 5 lbs., \$1.25; 10 lbs., \$2.00.

FISH MEAL. Lb., 25c; 5 lbs., \$1.25; 10 lbs., \$2.00; 25 lbs., \$3.75; 50 lbs., \$7.00; 100 lbs., \$12.00.

ACTIVO. Converts weeds, lawn clippings, leaves, also garbage into rich, odorless humus plant food, in two to six weeks. This mineral rich humus will work wonders for you in the garden.

No. 2 size, for up to 400 lbs. compost... \$ 1.00
No. 7 size, for up to 1700 lbs. compost... 2.49
No. 25 size, for up to 3 tons compost... 6.99
No. 50 size, for up to 6½ tons compost... 11.95
No. 100 size, for up to 12 tons compost... 19.95
Nos. 2, 7 and 25 postpaid. Nos. 50 and 100 f.o.b. St. Paul

ADCO (Makes Artificial Manure). Adco is a powder which when mixed with dry leaves or almost any non-woody vegetable waste and kept moist, converts the mass into artificial manure—equal to the farmyard product, but free from foul odor. 5 lbs., \$1.50; 20 lbs., \$3.75; 100 lbs., \$17.50.



MILORGANITE Fertilizing

RECIPES

for HOME GARDENERS



FOR LAWNS
APPLY SPRING
AND FALL



FOR FLOWERS
OR VEGETABLES
RAKE INTO SOIL



FOR SHRUBS
RAKE IN CIRCLE



FOR TREES
POUR IN HOLES

Milorganite supplies the soil with the essential elements required for healthy, vigorous plant growth. Packed in 25-, 50-, and 100-lb. sift-proof bags. Order your's today.

25 lbs., \$1.55; 50 lbs., \$2.55; 100 lbs., \$4.25

Golf Clubs use *More* MILORGANITE THAN ANY OTHER FERTILIZER

Profit by Their Experience!

Greenkeepers are "turf specialists." They have found, from long experience, that Milorganite is the ideal turf fertilizer — for establishing and maintaining superior turf. Use Milorganite on your lawn, too. Have deep green grass . . . turf which is strong, dense and weed-free. Milorganite is easy to apply, doesn't burn, and best of all, keeps grass green longer.

ARMOUR'S VERTAGREEN—5-10-5. Vertagreen is a high quality, scientifically blended and balanced plant food, excellent for obtaining more prolific growth of lawns, flowers, shrubs, trees and garden vegetables. It is clean, odorless and easy to apply.

Vertagreen nourishes plants three important ways: (1) develops stronger, deeper root systems; (2) builds sturdier, more disease-resistant stems and leaves; (3) makes finer flowers, fruit and vegetables. 1 lb., 15c; 5 lbs., 53c; 10 lbs., 95c; 25 lbs., \$1.70; 50 lbs., \$2.80; 100 lbs., \$4.55.



ROSE FOOD. An organic no-filler plant food of dried blood, fish scrap, bone meal, Guano, potash, cottonseed meal, super-phosphate, and powdered poultry manure. 1 lb., 35c; 5 lbs., 85c; 10 lbs., \$1.35; 25 lbs., \$3.00; 100 lbs., \$9.75.



HYPONEX is a clean, odorless powder, complete starting and growing solution and balanced plant food, soluble in water. Will grow plants in soil, sand or water. Hyponex contains Vitamin B1. Wonderful for house plants and the flower and vegetable garden. 1 oz., 10c; 3 oz., 25c; 7 oz., 50c; 1 lb., \$1.00; 10 lbs., \$8.00; 25 lbs., \$15.00.

GOLF BRAND TURFOOD. A blend of organic and inorganic plant foods that produce immediate results on lawns. Analysis, 10-6-4. Use only 8 to 10 lbs. on established lawns; 16 to 20 lbs. on new lawns to each 1,000 square feet of lawn. 50 lbs., \$3.95; 100 lbs., \$7.50.



WEDO. The special lawn fertilizer with 2,4-D Weed killer combined. Kills weeds and feeds grass at the same time. 7½ lbs., \$1.00; 25 lbs., \$2.75; 100 lbs., \$7.95.

HY-GRO SOLUBLE PLANT FOOD

Contains 13% nitrogen, 26% phosphoric acid and 13% potash, also minor elements together with growth hormones and other helpful plant nutrients. Use to feed lawns, when transplanting seedlings, to feed established plants and when planting seeds. Is immediately available to plants. 3 oz., 30c; 20 oz., \$1.00; 10 lbs., \$4.50; 25 lbs., \$9.75. 2 lbs. HY-GRO with Gat Spreader, \$2.75.



PLANTABBS—PLANT FOOD TABLETS. Plantabbs provide a rich formula of complete, balanced, odorless, concentrated, clean, easy-to-use plant food of recognized value, which helps produce sturdy stems, luxuriant leaf, strong roots, gorgeous blooms, perfect form and color PLUS Vitamin B1. For plants and flowers, both indoors and gardens. 30 tablets, 25c; 75 tablets, 50c; 200 tablets, \$1.00; 1,000 tablets, \$3.50.



G & O DAHLIA AND GLADIOLI PLANT FOOD. An organic plant food, especially for dahlias and gladioli as well as tulips, daffodils, lilies and all bulbs or tubers. Analysis: 5% nitrogen, 6% phosphorus, 15% potash. Price, 5 lbs., 85c; 10 lbs., \$1.35.

NEW PLANT LIFE. A complete wonder liquid plant food to grow large, beautiful plants and flowers. 3-oz. bottle, 25c; 8 oz., 50c; 1 qt., \$1.50.

MANNA. A plant-food and transplant starter. Can be sprayed on, for foliage feeding. For growing plants in sand, soil or water. No. 1—to make 60 gallons liquid fertilizer, with plastic flower pot. Postpaid, \$1.00. No. 2—to make 150 gallons liquid fertilizer, with plastic flower pot. Postpaid, \$1.95.

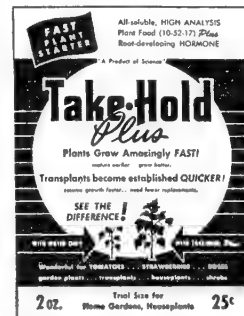
ATLAS FERTILIZER EMULSION. Organic plant food derived from fish. 4 oz., 35c; pt., \$1.00; qt., \$1.90; gal., \$6.25; 5 gal., \$26.00.

MAGIC GREEN FINGERS. A B plant stimulant for growth and beauty. Especially good to use on house plants or window boxes, where the B vitamin is so often lacking. Simply insert Magic Green Finger into soil of flower pot or for each plant in window box. 8 Fingers, 10c; 24 Fingers, 25c. Add 5c on either for mail orders.

TAKE-HOLD PLUS. A high analysis plant starter (10-52-17)—plus rooting hormones. Hormones develop new roots quickly. Plant Starter supplies needed ingredients immediately. Plants mature earlier, bear longer. Price, 2 oz., 25c; 12 oz., 85c; 2 lbs., \$2.00.

TAKE-HOLD (10-52-17) — 3 lbs., \$1.00; 1 bale (15 3-lb. pkg.), \$11.25; 50 lbs., \$11.00.

KEM, LIQUID PLANT FOOD. A complete, balanced plant food containing all the needed elements for a perfect plant food. Merely dilute with water and apply. 4 oz., 10c; 12 oz., 25c; quart, 50c; gallon, \$1.00.



SPRAYERS

HUDSON SPRAYERS

High pressure sprayer for spraying small orchards, truck gardens, flowers, shrubbery, shade trees and other foliage.

Perfection, 4 gal. galvanized tank\$13.20

Perfection, 4 gal. stainless steel tank.....\$23.60

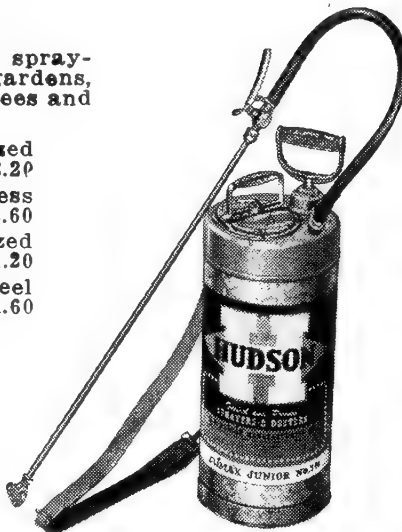
Climax, 3½ gal. galvanized tank\$11.20

Climax, 3½ gal. stainless steel tank\$21.60

Climax Jr., 2¼ gal. galvanized tank.....\$11.20

Climax Jr., 2¼ gal. stainless steel tank.....\$21.60

Leader, 3½ gal. galvanized tank\$9.60



2 Gal.
DeLuxe

DOBBINS SPRAYERS

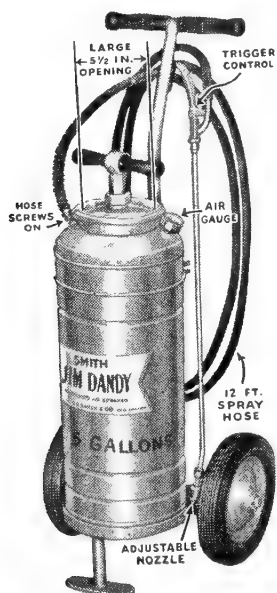
Bighead, 4 gal. galv. tank.....\$13.45

Bighead, 4 gal. stainless steel tank 23.20

Budget, 3½ gal. galv. tank..... 7.60

Budget, 2½ gal. galv. tank..... 7.05

DeLuxe, 2 gal. galv. tank..... 11.70



JIM DANDY CART SPRAYER

This beautiful cart sprayer may be easily wheeled about as desired, over smooth or rough ground. The balloon-tire wheels are on roller bearings for easy perfect wheeling. 5 gal. capacity.

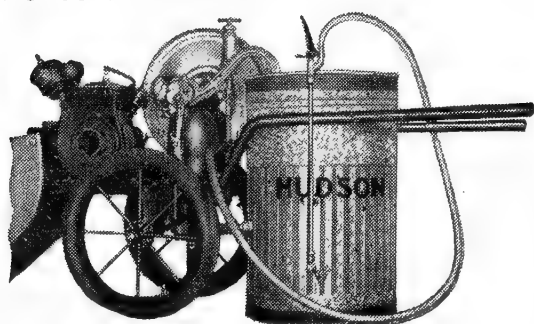
Price..... \$34.50



DOBBINS FLAME SPRAYER

The ideal outfit for killing annual and perennial weeds and grasses, burning brush and rubbish, removing weeds from driveways, roads, fence rows, etc. 4 gallon galvanized tank. Price.....\$23.50

HUDSON DEFENDER



Power - operated portable unit for greenhouse, nurseries, golf courses, cemeteries, small orchards, truck gardens, etc. 1½ H.P. engine, tank 18 gal. cap. No. 1044. Price \$165.00



ARNOLD GARDEN HOSE INSECTICIDE SPRAYER AND CARTRIDGES

THE ARNOLD GARDEN HOSE SPRAYER attaches to your garden hose in place of the regular nozzle. Special Soluble Arnold Cartridges for insect and plant disease control fit the cartridge chamber. As water in the hose passes through the chamber, the cartridge is dissolved in sufficient quantity to provide the correct control

Chrome with adjustable nozzle and six cartridges.. \$8.75

Chrome with adjustable spray nozzle..... 6.50

Chrome with stationary spray nozzle..... 5.50

Brass adjustable sprayer..... 6.00

Brass stationary sprayer..... 5.00

Plastic sprayer..... 1.00

One plastic sprayer and 12 Weed-O-Spray cartridges 1.75

Arnold Cartridges. Listed below, 40c each, 12 for \$4.80.

Funguspray Rot-O-Spray Sulph-O-Spray

DDT Arsen-O-Spray Weed-O-Spray

Nic-O-Spray P-R (Pyrethrum-Rotene)

Cleanswell Auto Wash



No. 176



No. 168



No. 166



1N

2N

3N

4N

4NW

5N

6X

Hudson Sprayer Parts

We carry a complete line of parts and washers.

Ken-Sprayall. The perfect and satisfactory hand sprayer for all kinds of home garden spraying. Sprays all solutions, up to 35 feet in height. Spray from fog-mist to full stream, as you wish. Little Giant, \$4.50; De Luxe Model, \$8.75.



Master Fog

Misty, qt. size.....70c; postpaid 95c

Fog, pt. size.....55c; postpaid 70c

Homestead, glass, 12 oz. size

\$1.10; postpaid \$1.30

Mercury, qt. size, continuous

\$1.50; postpaid \$1.65

Hudson Sprayers

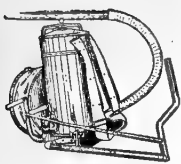
Ideal, 15 gal. steel wheel, without pressure tank.....\$38.40

Ideal, 15 gal. steel wheel, with pressure tank\$51.20

Sunshine, 15 gal. steel wheel, without pressure tank\$25.00

Sunshine, 15 gal. steel wheel, with pressure tank\$37.60





DRY POWDER DUSTERS

Beauty Dusters

Authorities consider this one of the most efficient dusters ever made. Throws dust to top of 25-foot trees. Does not choke or clog. Dusts truck crops, top and underside of leaves at an average walking speed.

American Beauty\$27.50



**HUDSON
ADMIRAL
DUSTER**

Effective and economical. Price, 4½-inch chamber with 24-inch extension, \$2.00; postpaid, \$2.20.



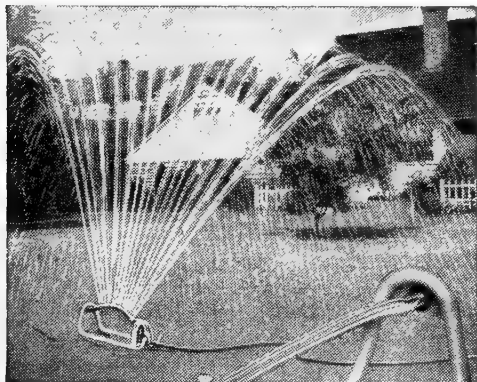
**HUDSON
CADET
DUSTER**

Adapted for use with all insect powders. Also for the garden or poultry house dusting. Each, 65c; postpaid, 80c.

"Walking" Lawn Sprinkler

"WALKING" LAWN SPRINKLERS are operated by water power. No fuss; simply lay the hose over the course you want to water, place the sprinkler so as to follow back along the hose and turn on the water. THE "WALKING" SPRINKLER will start immediately, pulling the water filled hose back along the course with it. "WALKING" LAWN SPRINKLERS will do your watering job well and economically. Have saved as much as forty per cent on their water bills and had better lawns than ever before. The width of the strip to be watered may be set for a few feet to fifty feet. Free leaflet sent on request.

Model A5\$23.95
Model A5-2 26.95
Model B3 34.95
Automatic Shut-off 5.25



Metco Wave Sprinkler

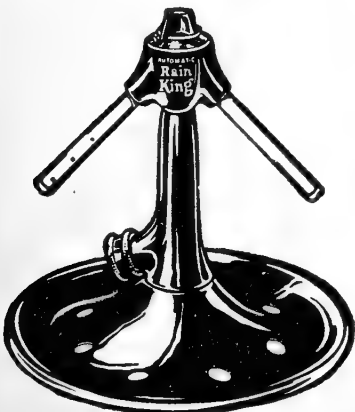
Can be regulated to almost any width or space desired. Will water an area 40x50 at a time, with uniform coverage. This is an outstanding sprinkler in every way.

Prices:

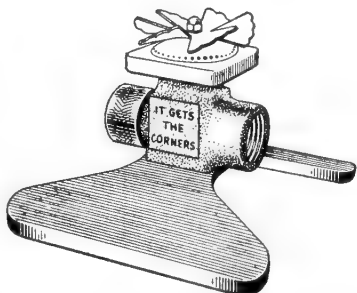
Model T....\$16.95
Model M ... 12.95
Model J ... 9.95

Carroll Square Spray

Here is a fine sprinkler that has won many friends. It will distribute water evenly over an area of 2 to 30 feet. Price, \$3.95.



Model K.



Rain King

7th BEST SPRINKLERS MADE

This improved Rain King is easily adjustable for fast or slow or stationary sprinkling. Works on all water pressures.

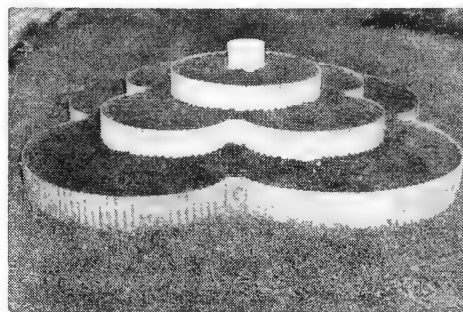
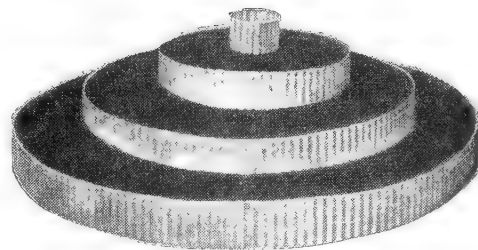
Model D\$5.95
Model H 7.65
Model K 8.50
Nozzle 1.50

NU-WRINKL

TRADE MARK

Nu-Wrinkl Strawberry Planting Pyramid

Holds up to 100 big plants, which could produce 100 qts. of berries the first season. Takes only a 6½ foot diameter space. Easy to weed, water and fertilize. Berries are clean, easy to pick. Pyramid made of galv. steel, overlaid to blend with soil. \$8.95; postpaid, \$9.30.

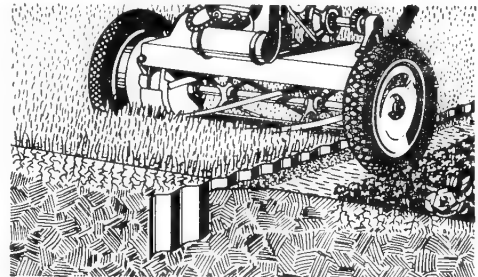


Nu-Wrinkl Planting Terrace Kits

One kit makes above 4 leaf clover plan, 8 ft., in diameter. Direction folder shows other plans. Easy to install and maintain. Made of galv. steel. Per kit, \$9.95; postpaid, \$10.50.

Nu-Wrinkl

Nu-Wrinkl is a corrugated galvanized steel strip, 26 inches long by 4 inches high. When installed in soil with slight projection above soil level, it acts as a soil barrier to grass spread, or stops cut worms and moles. Eliminates edges around flower gardens, trees, shrubs and driveways. Each, 25c; bundle of 20, \$3.89. Postage extra. (Bundle weighs 12 lbs.)



Insecto-O-Gun

Kill insects with your garden hose. By simply using the water pressure in a garden hose you can now effectively spray your flowers, trees and shrubs with the same efficient results secured by power spraying methods. Applies all insecticides as easily as sprinkling the lawn. 3 gal. capacity size, \$5.95; postpaid, \$6.25.



Gro-Gun

Attached Gro-Gun to your garden hose and fertilize while you water. You can use any liquid fertilizer, vitamin-hormone solution or soluble plant food. Each, \$2.95.

Gard-N-Gun

The all-purpose sprayer for all kinds of insecticides or fungicides. Attach to garden hose, water pressure does the work. Finger-tip control. Each, \$2.95.

Watering Cans

Galv. Iron—Made to Last
6-qt. size.....\$2.75
10-qt. size..... 3.25
12-qt. size..... 3.75



Hotbed and Greenhouse Putty

\$1.55 to \$3.00 per gallon; 5 gallons \$7.25 to \$14.50.

Peerless Glazing Points

1,000 to the box at \$1.25.

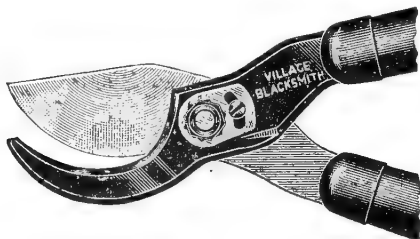


Scare-Away

The modern scarecrow. Protects against destructive birds and small wild animals, newly planted seeds, tender young sprouts, all ripe berries, fruits and vegetables, etc. A new garden policeman useful from planting time to harvest. Pkg. of 10, 25c. (30c by mail.)

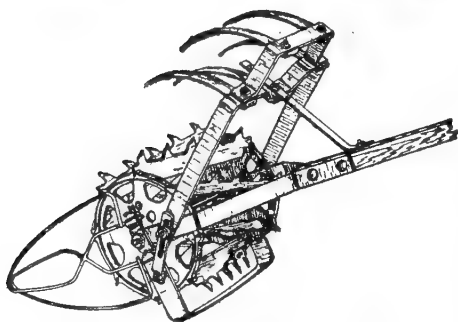
Stump Remover

Now, for just \$1, remove huge, unsightly stumps, new or old, roots and all, without chopping, pulling, digging, blasting! No effort, no risk, no injury to surrounding vegetation. Safe, scientific. 4 oz. removes average-sized stump. 4 oz., \$1; 8 oz., \$1.50; 16 oz., \$2.50; 5 lbs., \$7.50; 10 lbs., \$12.50; 25 lbs., \$20.00.



P12—Pruning Shears,
a heavy duty tool.
Each\$4.50

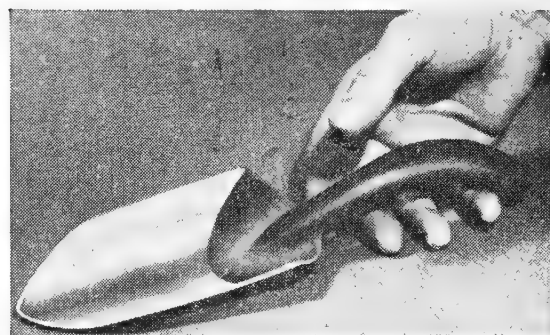
P11—Pruning Shears,
a lighter tool.
Each\$3.60



Ro-Ho Gardener

Weeds—Hoes—Cultivates—Mulches Soil. You do it all in one operation with less effort than it takes to push an easy-running lawn mower.

No. 10—10½ inches wide\$10.50



No-Blister Rust-Proof Trowel

Designed to prevent blisters and easy working. Made of cast aluminum. \$1.25.



Garden Groom Hoe

It works with ease and speed. Permits you to work close to plants without injuring foliage. Weight of The All-Purpose Hoe is only 1½ lbs., which is ideal for women to use around perennials, shrubs or garden crops...\$1.25



W26—Asparagus Knife, a splendid dandelion digger.
Each\$0.35



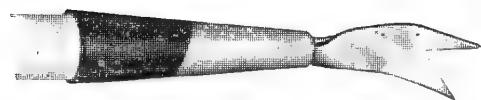
W28—Dandelion or Lawn Weeder, 3-foot handle.
Each\$0.69

GARDEX "SOIL FLOW" GARDEN TOOLS



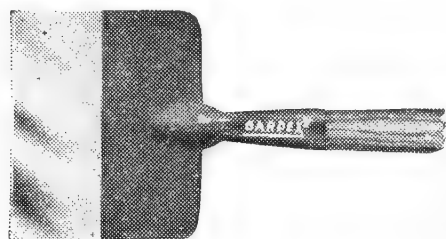
Warren Hoe

For making trenches, hilling, weeding easier. 4½ ft. handle. \$2.10.



Dandelion Cutter

For cutting of dandelions and other weeds. No stooping or bending. Has 3½ foot handle. 85c.



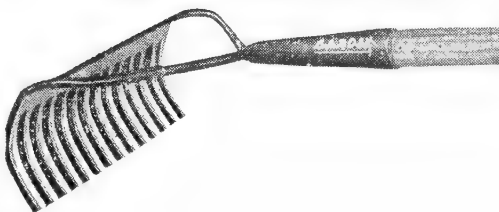
Sidewalk Scraper

A sturdy tool, 7 in. wide; with extra heavy 4 in. handle. \$1.40.



Small Cultivator

Ideal for small flower and vegetable garden. Loosens soil perfectly. \$1.65.



Bow Rake

For every raking purpose. Well made with reinforced bow. 5 ft. handle, 14 in., \$2.05; 16 in., \$2.25.



Dandelion Rake

Removes blossoms and leaves before they reseed. 26 tooth, 16¼ in. wide, 5 ft. handle. \$1.95.



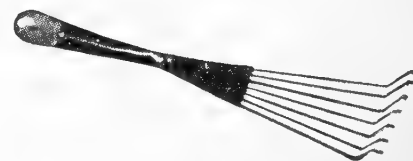
Scuffle Hoe

Made with thin blade of high grade steel. \$1.85.



Speedy Cultivator

Sharply pointed tines. For working under low and over flowers and plants. 4½ ft. handle. \$2.05.



Steel Hand Broom

Handy for getting leaves out of shrubbery. 65c.



Hoe

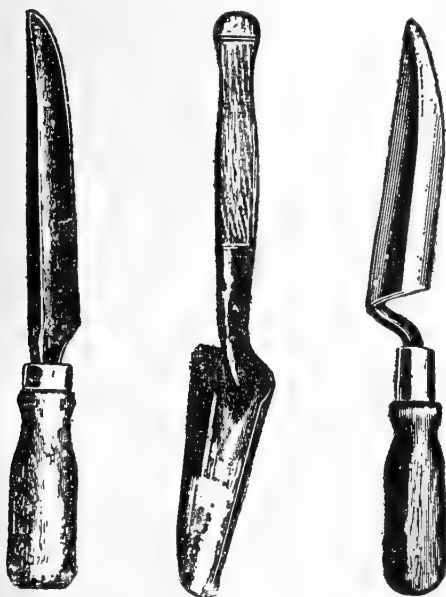
Made of high grade carbon steel blade. Width and depth 8x3½ in., 5 ft. handle. \$1.75.

Village Blacksmith Garden Tools

Tempered, Quality Tools at a
Low Price



W22—Garden Trowel, heavy steel blade.
Each\$0.45



W23 **W25** **W24**

- W23—Transplanting Trowel, curved narrow blade.** Each.....\$0.40
W25—Garden Trowel, strong, durable. Each\$0.55
W24—Garden Trowel, one piece forged steel blade. Each.....\$1.35



T2—Trowel, for garden or greenhouse.
Each\$0.25



T3—Transplanter, green enamel finish.
Each\$0.25



T6—Cultivator, for mulching, cultivating or weeding. Each.....\$0.25



T50—Fork, to loosen soil. Each...\$0.25



W20—Weeder, forged steel blade.
Each\$0.75

Fruit Picker

A useful tool for picking fruit out of reach. Black metal frame and cloth bag 9 in. deep. No. 7 with 6 ft. handles, each \$3.50.

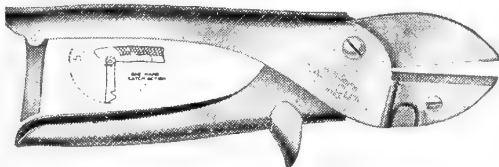


Grass Catchers

HS-No. 114—12-18 in.....	\$2.30
HS-No. 234—12-18 in.....	2.75
HS-No. 234-S—12-18 in.....	2.90
Pr-No. 244-1S—16-21 in.....	4.10
Pr-No. 224-2A—18-24 in.....	4.25



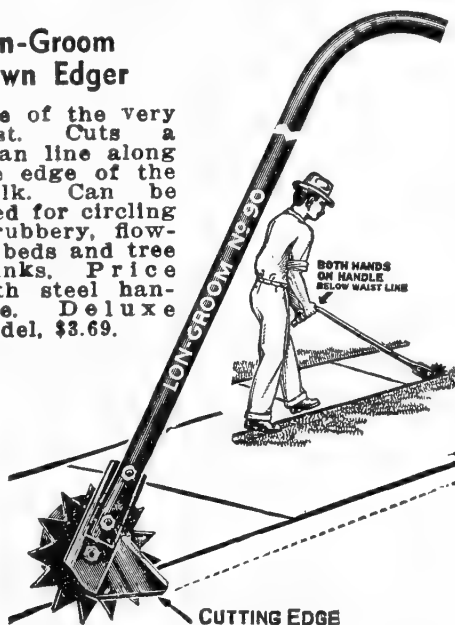
Pruning shears. Made of best tempered steel. Prices, 75c to \$4.25.



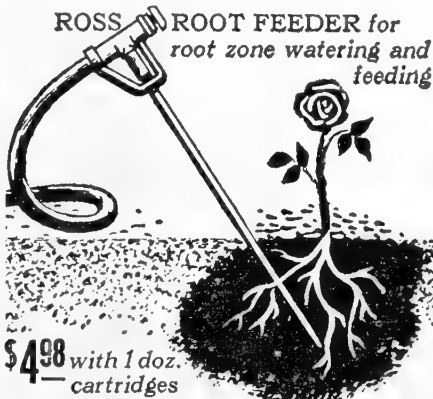
Snap-Cut Pruning Shears. Cuts easier and cleaner. Price, \$2.75. Add 15c on mail orders.

Lon-Groom Lawn Edger

One of the very best. Cuts a clean line along the edge of the walk. Can be used for circling shrubbery, flower beds and tree trunks. Price with steel handle. Deluxe model, \$3.69.



ROSS ROOT FEEDER for root zone watering and feeding

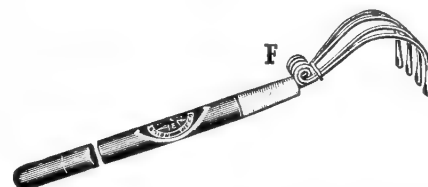


Starter Cartridge (10-52-17) for quick rooting—to be used for two feedings after transplanting.
Neutral Cartridge (8-16-8) for most plants, roses, shrubs and trees. Contains all growth elements.
Acid Cartridge (10-20-20) for balanced growth for evergreens, berries, apples and all acid-loving plants.
Above cartridges \$1.00 a dozen, \$1.20 postpaid.

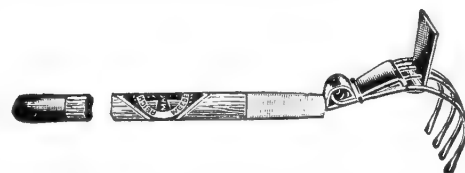
REICHARD'S Spring-Tooth MAGIC WEEDERS Best tools for home garden.



- A—3 tines with 5 1/4 in. handle.**
Price\$0.25
B—3 tines with 14 in. handle.
Price35
BB—3 tines with 33 in. handle.
Price50



- C—4 tines, 5 1/4 in. handle.** Price...\$0.35
F—4 tines, 42 in. handle. Price... 1.40
G—4 tines, 48 in. handle. Price... 1.65



- D—4 tines, 5 1/4 in. handle.** Price...\$0.50
H—4 tines, 48 in. handle. Price.... 1.95



- E—4 tines, 5 1/4 in. handle.** Price...\$0.50
K—4 tines, 48 in. handle. Price.... 1.95

GRO-QUICK ELECTRIC SEED BED HEATER
SEED UP IN 30 HRS. TRANSPLANT 2 WKS. SOONER!

Senior Gro-Quick, contains thermostat, 80 ft. 400 watt insulated electric heating cable for burying in soil...\$9.00
Junior Gro-Quick, same as above but with 40 ft. 200 watt junior cable, for 3x6 hotbed\$6.75

IMMEDIATE DELIVERY

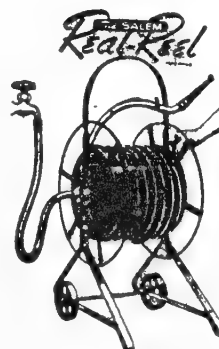
Waters Tree Pruner

A very good Tree Pruner at a low price. The blade is made of high carbon tool-steel accurately ground to cut perfectly true. Hook also made of carbon steel.

- 6-ft. Each.....\$4.00
8-ft. Each..... 4.50
10-ft. Each..... 5.00
12-ft. Each..... 5.50

Real Reel

Different from other portable reels. Water passes through rotating couplings on side of reel and while water is running as much or as little hose as needed can be unreeled. Eliminates kinks and twists. Price, \$14.95.





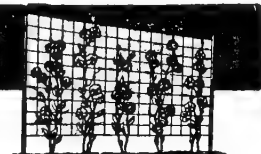
Metal Bushel Baskets

For handling vegetables and many other uses, here is a light weight, durable basket. Price, \$2.00 each. Dozen, \$20.00.

Orchard supplies, wooden bushel and ½ bushel baskets; one peck and half peck baskets and repacking baskets of all kinds. Please ask for prices.

TRAIN-ETTS

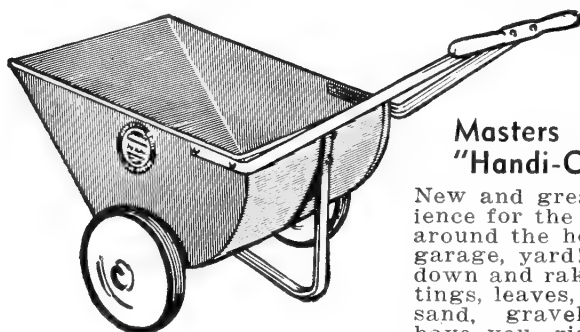
New Weatherized TRELLIS NETTING



Ideal Support for SWEET

PEAS, GARDEN PEAS, POLE BEANS, CUCUMBERS, TOMATOES

Grows finer, larger flowers and vegetables. Hung with ease in 5 minutes; no fuss or bother. Use instead of string or wire. (Wire in sun burns delicate tendrils.) *Doesn't rot like string*—No. 1, 60x72 in., 65c, 70c postpaid; No. 2, 60x96 in., 85c, 90c postpaid; No. 3, 60x180, \$1.25, postpaid \$1.35.



Masters "Handi-Cart"

New and greater convenience for the 101 odd jobs around the home, garden, garage, yard! Just tip it down and rake grass-cuttings, leaves, trash, earth, sand, gravel, or what have you, right into the cart—then tip it back and you have a full load. The

longer you have it, the more uses you'll find for it. Built extra strong to stand abuse! Small size, \$10.50. Large size, \$15.25.

Hevi-Duti Handi Cart. Larger and specially built to accommodate heavy or bulky loads. Price, \$29.75.

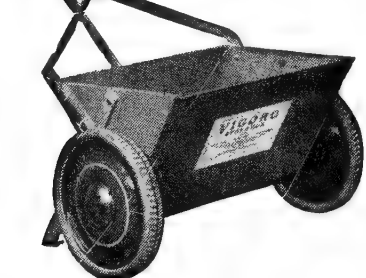
Vigoro Fertilizer Spreaders

Vigoro Spreaders make quick work of lawn feeding and lawn seeding.

Model "BR," with rubber tires, \$8.75.

Vigoro Spreader

Junior Model Illustrated



Junior, rubber tires, 35 lbs. capacity. Each, \$12.00.

Standard, 65 lbs. capacity. Each, \$33.50.

Special, 100 lbs. capacity. Each, \$43.75.

Master's Fertilizer Distributor

A sturdy, efficient machine for the even distribution of fertilizer or grass seed.

Model 25-S, 20 lb. capacity, steel wheels, \$8.95.

Model 25-D, 20 lb. capacity, deluxe rubber tires, \$10.25.

Model 30, 50 lb. capacity, rubber tires, \$12.95.

Model M-241, 75 lb. capacity, steel wheels, \$33.95.

Model M-241D, 75 lb. capacity, semi-pneumatic tires, \$41.50.

Model M-361, 120 lb. capacity, steel wheels, \$47.25.

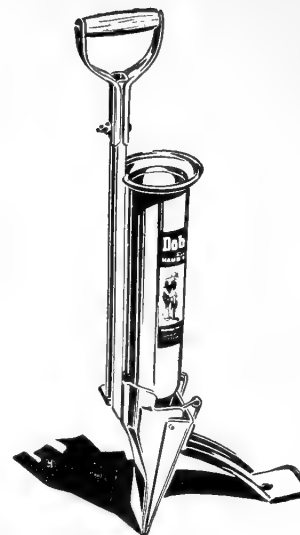
Model M-361D, 120 lb. capacity, semi-pneumatic tires, \$53.25.

Model M-361SD, 120 lb. cap., semi-pneumatic tires, \$63.95.

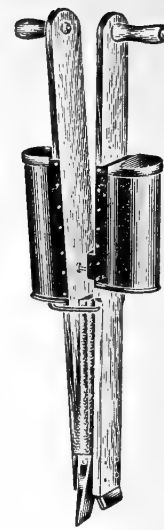
Model M-361F, 120-lb. cap., steel wheel, \$96.25.



No. 300
Potato Planter



No. 810
Potato Planter



No. 308
Corn Planter

No. 300 Potato Planter. Will plant up to 4 acres a day. Easy to operate in any kind of soil. Each, \$2.50.

No. 810 Potato Planter. Easy to operate, up to 4 acres a day. Each, \$3.00.

Corn Planter. Will give years of satisfactory service. Accurate and easy to operate.

No. 306A Hand, \$4.20.

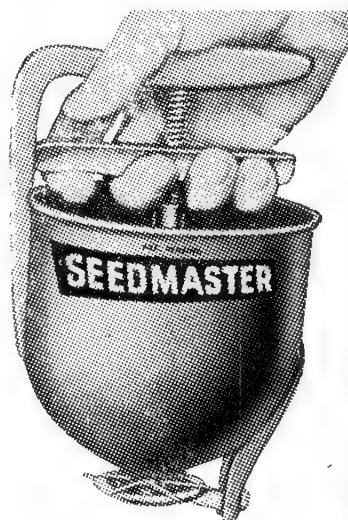
No. 309 Rotary, \$6.60.

No. 308 With fertilizer attachment, \$6.00.

No. 314 Victor Long Life, \$6.00.

Hole-in-One Planter

Plant setter and bulb planter. This handy tool makes a hole in one operation. Merely cut the tool into the soil, remove it with a slight twisting motion and the soil comes with it, leaving a clean hole in which plants or bulbs may be set. Each, \$1.00.



Seedmaster

will insure luxurious grass. Spreads seed evenly, making possible more uniform growth. Saves time and seed. Holds one pound of seed at a filling. Seedmaster is marvelous for spreading sand on icy walks. Price, \$2.98; \$3.15 by mail.



Terra-Lite

Terra-Lite is the sure and easy way to start seeds. Use it for rooting cuttings, transplanting, ideal as a summer mulch and for worry-free storage of roots and bulbs in the fall. A soil builder. The new wonder garden aid. 4 qt. size, 39c; ½ bu. size (4 lbs.), 85c; 2 bu. bag (15 lbs.), \$1.85; 3¼ bu., \$2.25.

Sunbeam Electric Hedge Trimmer



Light weight.
Easy to handle.

A fine hedge trimmer, built and powered to do long trimming jobs required of a professional gardener. Light in weight, sturdy construction, equipped with 10 ft. of cord and plug. Price, each, \$43.50. Extra cord available.

GARDEN & FARM EQUIPMENT

No. 4 Planet Jr. Combination Hill and Drill Seeder, Wheel Hoe, Cultivator and Plow Equipment: 1 garden plow, 3 steel cultivator teeth, 1 pair of hoes, 1 leaf lifter, capacity 2½ quarts. Price \$29.95. No. 4-D Seeder only. Price, \$24.50. No. 25, same as No. 4, but as a Double and Single Wheel Hoe. Price, \$36.95.

No. 300 Drill Seeder

A seeder for all seeds from the smallest up to lima beans. Growers of peas and beans will appreciate this seeder as it does not break the seed and sows with great regularity. Hopper holds four quarts. Price, \$33.50.

No. 300-A Seeder



No. 11 Planet Jr. Double and Single Wheel Hoe Combined. Price, \$21.95

A wonderful combination of a Double and Single Wheel Hoe with a variety of cultivating attachments that take care of every kind of cultivation in the home or market garden.

No. 12 Double and Single Wheel Hoe

Has No. 11 equipment except 4½-in. hoes and rakes. Price, \$18.50.

No. 13 Double and Single Wheel Hoe

A great favorite among onion growers. **Equipment:** One pair of 6-inch hoes, the most useful attachments. Other attachments can be added at any time. Price, \$14.50.

No. 16 Planet Jr. Single Wheel Hoe

Lighter than a Double Wheel Hoe and almost as useful to those who prefer a light tool. The variety of attachments will handle practically any cultivating, hilling, furrowing, etc., in the garden.

Equipment: One pair of 6-inch hoes, 3 steel cultivator teeth, garden plow, one 3-tooth, and one 5-tooth rake, 1 leaf lifter. Price, \$14.95.

No. 17 Single Wheel Hoe. Same as the No. 16, less the rakes and leaf lifter. Price, \$12.95.

No. 17½ Single Wheel Hoe. Same as the No. 17 less the plow. Price, \$11.50.

No. 18 Single Wheel Hoe. Equipped with 1 pair of 6-inch hoes only, the most useful attachments. Other attachments can be added whenever desired. Price, \$9.95.

No. 82 Planet Jr. Horse Hoe and Cultivator

The No. 82 is a 7-tooth machine with reversible side standards, which can be turned any angle desired, insuring fine and thorough cultivation. Is valuable for hoeing, hilling, or thorough cultivating. Price, \$28.95.



Cyclone Seed Sower

The Cyclone can be used for sowing clover, timothy, alfalfa, lespedeza, Sudan grass, oats, wheat or any other seed that is sown broadcast. Price, \$4.30.

The Horn Seed Sower

Will sow all smooth seeds like alfalfa, clover, timothy, lespedeza, etc., any desired amount per acre. Easily operated. Price, \$1.60.

Sudbury Soil Test Kits

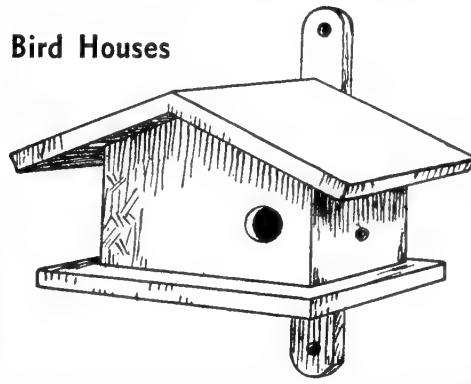
You cannot grow a successful garden unless there is sufficient plant food in the soil. A Sudbury Soil Test Kit will indicate what is lacking, if anything.

Acid-Alkaline Test Kit, \$1.49
Home Gardener, 20-test kit 2.98
New Club Model, 50-test kit 5.89
Horticultural Model, 14.95
Deluxe, steel case 200-test kit 29.95

Refills are available. Specify kit number or model.



Bird Houses

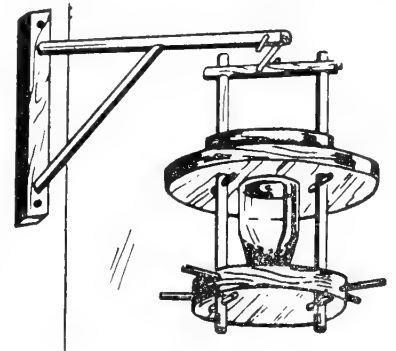


ready for the birds. Come in and see our large assortment of bird houses.

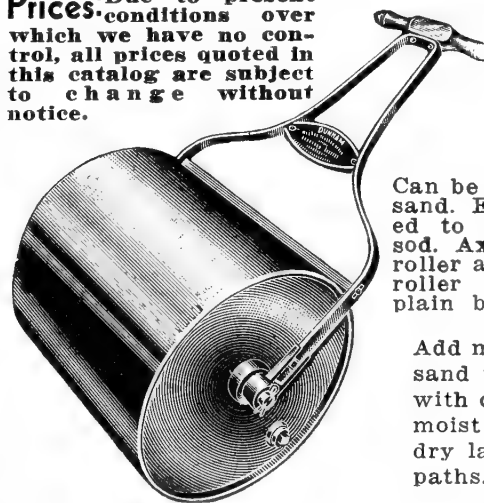
Put out a bird house or two in your yard. You will be richly repaid for your trouble. The birds each year will become a source of happiness and joy to you with their ever present and cheerful song. Here in the Northwest, song birds begin arriving in March and bird houses should be in place then.

Bird Feeders

These are primarily for winter feeding but if sunflower seed and suet is hung out in summer in a feeder it will tempt and invite birds like cardinals to make your yard their permanent home—summer and winter.



Prices: Due to present conditions over which we have no control, all prices quoted in this catalog are subject to change without notice.



DUNHAM Water Weight Lawn Roller

Can be filled with water or sand. Edge of drum rounded to prevent tearing of sod. Axle runs through the roller and is equipped with roller bearings or with plain bearings.

Add more or less water or sand to roller to conform with conditions—light for moist lawns, medium for dry lawns, and heavy for paths.

	Size	Empty	Filled	Price
No. 2—	14x24	50 lbs.	160 lbs.	\$17.50
No. 4—	18x24	60 lbs.	220 lbs.	20.50
No. 7—	24x24	80 lbs.	400 lbs.	27.50

Lawn Mowers Sharpened

We sharpen all types of mowers. We pick up, clean, sharpen, oil, adjust properly and deliver. Satisfaction guaranteed. Call GARfield 5377.

Twine

Binder twine in 8-pound balls. Cotton twine in 4, 6 and 12-ply balls and cones at market prices.

Animal Repellent Rope

All animals hate the odor. Repels dogs, cats, rabbits. Rope can be used to circle flower beds or evergreen. Rain does not effect rope odor. Tin, 100 ft., \$1.50

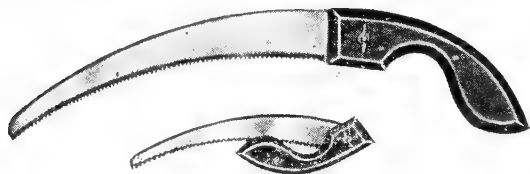
Flower Cutting and Holding Shears

Cuts and holds stem in one operation. Made of stainless steel. \$3.00.

Knee Pads

Ideal for gardener, housework, floor work, etc. Fits the knee and stays in place. Can be worn over or under clothes. Per pair, \$2.00.

Folding Curved Pruning Saw



12 inch blade. \$1.60
14 inch blade. \$1.75

Straight Double Cutting Edge Pruner



Hardened and tempered blade. 16 in. blade, \$1.50; 18 in. blade, \$1.75.

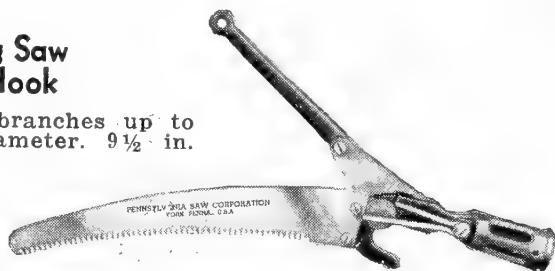
Forestry Pruner



Long narrow blade with coarse teeth. 26 in. blade, \$3.75.

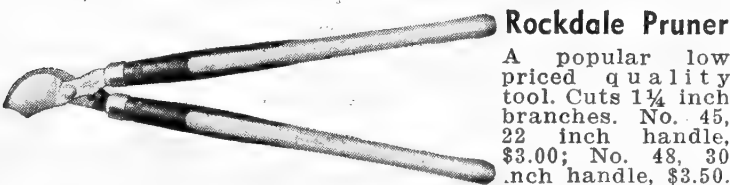
Pole Pruning Saw Shear and Hook

For cutting branches up to 3/4 in. in diameter. 9 1/2 in. blade. \$5.00.



Ezy-Cut Long Handled Pruner

A rugged tool that will cut 2 inch green wood with ease. No. 25, 22 inch handle, \$5.25; No. 26, 30 inch handle, \$5.75.



Rockdale Pruner

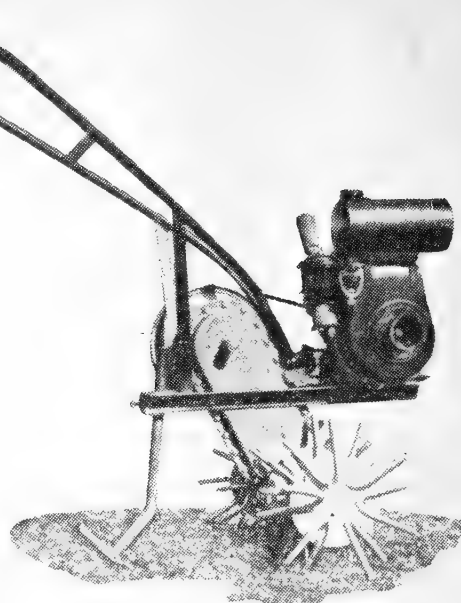
A popular low priced quality tool. Cuts 1 1/4 inch branches. No. 45, 22 inch handle, \$3.00; No. 48, 30 inch handle, \$3.50.

Raffia (Natural or Green)

The best tying material for plants. Also used for basket making. **Natural:** 1/2 lb., 45c; 1 lb., 75c; 5 lbs., \$3.25; 10 lbs., \$6.00. **Green:** 1/4 lb., 50c; 1/2 lb., 95c; 1 lb., \$1.55. Postage extra on mail orders.

Merry Tiller

The new light weight powered tractor and rotary cultivator. Takes the work out of gardening. It plows, tills, harrows, discs, cultivates, does light grading and leveling. Built for strength and economy. Price, \$183.39.

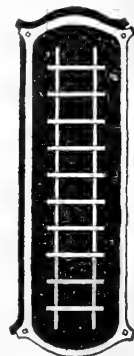


CHAPERONE (Dog Repellent). **Powder:** For keeping dogs off rugs and furniture. Odorless to humans and does not stain, but is repulsive to dogs. 1 oz., 50c; 3 ozs., \$1.00. **Liquid:** For outdoor and garden use. Keeps dogs away from trees, shrubs and plants, 4-oz. size, 60c; 8 oz., \$1.00; 12 oz., \$1.25; 1 qt., \$3.00; 1 gal., \$8.00.



Trellises

A small investment in trellises will work wonders in beautifying your home premises. We carry a large assortment of trellises to suit your particular need and we invite you to come and see our display and low prices.



Peony or Plant Support

Constructed of heavy galvanized wire to make a rigid support for peonies, delphiniums, tomatoes, etc. Easy to adjust to plant.

	Dia.	High	Each	Doz.
No. 6	..14 in.	30 in.	\$0.60	\$6.00
No. 6	..18 in.	30 in.	.70	7.00
No. 3	..24 in.	42 in.	1.25	14.00



Peony Support.

Weatherproof Pencil

Rain and weatherproof. Each, 15c.

Caulking and Glazing Gun

Prices, \$1.95 to \$3.50 each.

Wood Plant Bands

	Per 1000
1 3/4 x 1 3/4 x 2 1/2	\$5.85
2 x 2 x 2	5.85
2 x 2 x 2 1/2	6.15
2 1/4 x 2 1/4 x 2 1/2	6.45
2 1/2 x 2 1/2 x 2 1/2	6.60
2 x 2 x 3	6.60
2 1/2 x 2 1/2 x 3	6.75
3 x 3 x 3	7.35
4 x 4 x 3	7.75
3 x 3 x 4	7.75
4 x 4 x 4	8.85



Hotkaps

Help you grow earlier, hardier vegetables, flowers. Hotkaps—strong little hothouses—protect plants from destructive frost, storms, insects. University tests prove Hotkaps increase yield 18% to 51%, nearly double early marketable yield, ripen crops 3 weeks earlier for highest prices. Quick, easy to set. 100 million used. Premium profits pay for them many times over.

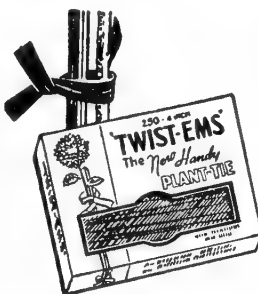
25 with setter (wt. 2 lbs.) \$ 0.95
100 with setter (wt. 5 lbs.) 3.15
250 with setter (wt. 11 lbs.) 5.90
1,000 Hotkaps (wt. 26 lbs.) 18.35
5,000 Hotkaps at per 1,000.. 18.20
10,000 Hotkaps at per 1,000.. 18.05
Postage extra on mail orders.



'TWIST-EMS' — Help you support plants quickly.

A twist of the wrist and the plant is tied. Twist-ems are dark green strong tapes with wire reinforcing that makes perfect plant ties. Used by vegetable and market gardeners as a bunching tie, and for tomato, berry and flower growers for staking and bunching. A time and labor saver.

Pkg. of 200 4 inch.....25c
Pkg. of 35 8 inch.....10c
Pkg. of 50 8 inch.....15c
Pkg. of 100 8 inch.....25c
Pkg. of 100 16 inch.....50c



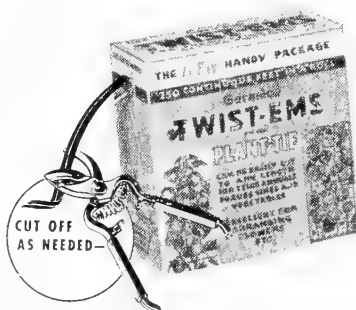
UTILITY TWIST-EMS. For vegetable and flower growers, nurserymen and florists.

Size	1000	5000	10,000	25,000
	per 1000	per 1000	per 1000	per 1000
4-inch	\$0.98	\$0.92	\$0.89	\$0.84
7-inch	1.55	1.45	1.40	1.35
8-inch	1.73	1.61	1.55	1.49
12-inch	2.62	2.44	2.35	2.23
16-inch	3.50	3.25	3.13	3.00

(Postage extra on mail orders. 1,000 weigh one pound.)

New Handy Twist-Em Package

This new colorful, handy package contains a roll of 250 continuous feet of Twist-Em. A snip of the shears and you have the exact length for every purpose—for tying annuals, shrubs, vines, vegetables—arranging flowers, etc. Price, \$1.00.



Handy Ann Garden Gloves



These beautiful color canvas gloves are handy to put on for so many things besides garden work. Have them with or without gauntlets. Price, per pair, 50c (postpaid, 55c).

Bird's Water Proof Paper Flower Pots and Plant Bands

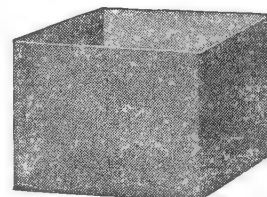
RED PAPER POTS

	Doz.	25	100	500	1,000
2 in..	\$0.25	\$0.45	\$1.25	\$4.80	\$8.60
2 1/4 in..	.25	.45	1.25	4.80	8.60
2 1/2 in..	.25	.45	1.25	4.85	8.70
3 in..	.30	.50	1.30	5.00	9.15
3 1/2 in..	.35	.55	1.50	6.65	12.20
4 in..	.40	.65	1.85	7.85	14.70
5 in..	.45	.75	2.10	9.65	18.15
6 in..	.50	.90	2.50	11.75	22.25



BLACK PAPER POTS

	Doz.	25	100	500	1,000
2 in..	.30	.50	1.75	7.50	14.00
2 1/4 in..	.30	.55	1.80	7.65	14.30
2 1/2 in..	.35	.60	1.90	8.00	14.85
3 in..	.40	.65	2.00	8.75	16.40
3 1/2 in..	.40	.70	2.50	11.50	21.60
4 in..	.45	.75	2.75	12.75	24.35
5 in..	.60	1.00	3.50	16.60	31.85
6 in..	.70	1.25	4.60	21.50	41.70



Plant Band

VITA-BAND NO. 10—For about 10 weeks of growing.

	Doz.	25	100	500	1,000
1 1/4 x 1 3/4 x 2 1/2	\$0.15	\$0.25	\$0.65	\$2.25	\$3.90
2 x 2 x 2 1/2	.15	.25	.70	2.50	4.40
2 x 2 x 3	.20	.30	.75	2.75	4.90
2 1/2 x 2 1/2 x 3	.20	.30	.80	3.25	5.85
3 x 3 x 3	.25	.35	.90	3.75	6.75
4 x 4 x 3	.25	.40	1.00	4.75	8.85
4 x 4 x 4	.30	.45	1.50	6.00	11.10

VITA-BAND D—Nutrient treated, band disintegrates after transplanting in soil.

	Doz.	25	100	500	1,000
1 1/4 x 1 3/4 x 2 1/2	\$0.15	\$0.25	\$0.70	\$2.35	\$4.05
2 x 2 x 2 1/2	.15	.25	.75	2.55	4.55
2 x 2 x 3	.20	.30	.85	2.95	5.20
2 1/2 x 2 1/2 x 3	.20	.30	.85	3.25	5.95
3 x 3 x 3	.25	.35	.90	3.75	6.90
4 x 4 x 3	.25	.40	1.00	4.75	9.10

Tom Thumb Flats and Plant Bands

No. 1 flat, 12 bands.	No. 10, 1 1/4 in.	No. 1 and No. 2 flats only.	No. 1	No. 2
No. 2 flat, 12 bands.	No. 10, 2 in.	Each	\$0.10	\$0.10
		10	.75	.85
		100	5.50	6.00
		1,000	44.70	49.60
Each	No. 1	No. 2		
10	\$.20	\$.20		
100	1.25	1.50		
1,000	9.50	11.50		
	86.45	95.65		



Garden, Pot and Tree Labels

	Doz.	100	250	1,000	Plain 1,000
Copper wired tree labels,					
3 1/2 inches	\$0.15	\$0.75	\$1.65	\$5.10	\$4.10
4-inch pot labels	.15	.70	1.35	4.10	3.30
5-inch pot labels	.15	.75	1.50	4.35	3.65
6-inch pot labels	.15	.75	1.65	5.00	4.00
8-inch pot labels	.20	1.20	2.25	7.25	5.85
10-inch pot labels	.25	1.50	2.50	8.65	7.00
12-inch pot labels	.30	1.75	3.25	10.25	8.25
8-inch garden labels	.30	1.75	3.25	10.35	8.95
10-inch garden labels	.30	1.85	3.60	11.60	10.00
12-inch garden labels	.45	2.65	5.50	19.25	17.00



National
Eezy Wear
Garden Gloves

Give you everything you want —



Fine goat skin, long wearing Garden Gloves. Men's small, medium or large size, \$1.50 a pair. Ladies' small, medium or large, \$1.50 a pair.

Gloves

We carry a large assortment of canvas, leather and rubber gloves, in addition to above gloves.

Clay Pots

We carry a complete line of earthenware flower pots from 2 to 8 inch sizes. Price on request. None sent by mail.

Like ALL NIGHT RAIN

IT REALLY SOAKS THE SOIL



SOIL-SOAKER

Size	Length	Price
No. 0	12 ft.	\$1.80
No. 1	18 ft.	2.40
No. 2	30 ft.	3.90
No. 3	50 ft.	6.00

Soil-Soaker

Is made of porous canvas and especially useful for watering terraces, narrow places, flower gardens and hedges. Soil-Soaker screws to the end of water hose, replacing the nozzle or sprinkler. When the water is turned on, Soil-Soaker fills with water—and normal pressure forces water through the pores of the entire surface of Soil-Soaker, uniformly, without spray. Easily moved without shutting off water, or getting wet.

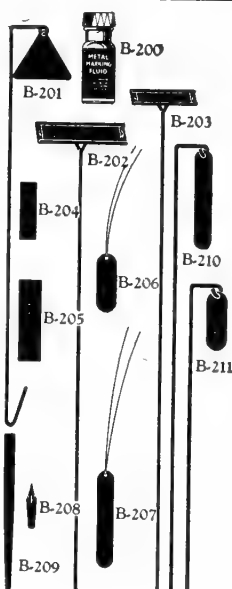
Cutworm Protectors

These are made of waterproof, heavy fibre material, that will not disintegrate in the soil. Are 3 inches high and 3 inches in diameter. 25, 20c; 50, 35c; 100, 65c. (Add 12c on mail orders).

Brandt's All Metal Garden Markers

All holders and tabs are made of non-rusting, non-corrosive metals.

Each	100	Each	100
B-200	\$0.30	B-206	\$0.04
B-201	.05	B-207	.04
B-202	.07	B-208	.06
B-203	.06	B-209	.06
Insert 203	.02	B-210	.05
Insert 202	.02	B-211	.05



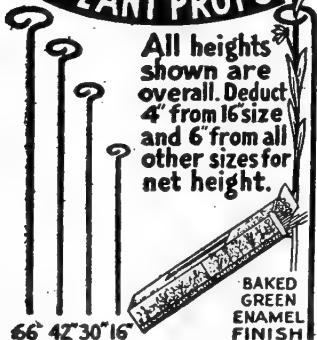
Leaf Mold

1 bag, about 2 bu., \$1.75; 5 lbs., 35c; 10 lbs., 50c; 25 lbs., \$1.00.

Sphagnum Moss

1 lb., 35c; 3 lbs., \$1.00; 1 bale (about 18 lbs.).....\$2.75

Help YOUR FLOWERS HOLD UP THEIR HEADS with G.O. PATENTED METAL PLANT PROPS



All heights shown are overall. Deduct 4" from 16 size and 6" from all other sizes for net height.

These green enameled Metal Shields can be used as a protection around flower beds, evergreens, shrubs, etc. Approximate dimensions: 21 in. high, 13 in. wide. Each, 25c; 2 for 45c; doz., \$2.25. (Doz. weight 8 lbs.)

Wire Plant Props

These require no tying as the loop at the top can be slipped around the plant stem. Prices: 16 in., doz., 65c; 30 in., doz., \$1.50; 42 in., doz., \$1.75; 66 in., doz., \$2.95; 78 in., doz., \$4.00.



Fence Rods

These fence rods are made of sturdy 1/4 inch steel with two loops which will support wire, clothes lines and even rope. Keep traffic off the lawns and flower beds. Mighty handy for circling trees and ornamentals to keep dogs at a safe distance. Rods 28 inches high. Dozen, \$1.95. Weight, 6 lbs. Rods, 48 in. high. Dozen, \$2.40. (Weight, 10 lbs.) (Postage extra on mail orders.)



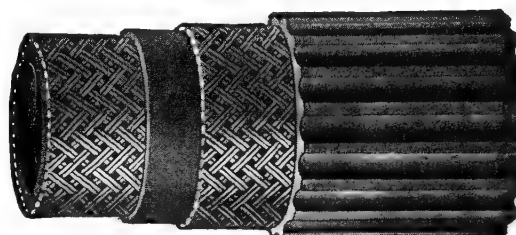
Supplex Plastic Garden Hose

Will give twice the wear of ordinary garden hose. It's "light as a feather" yet reinforced to make it doubly durable for heavy duty. 17 1/2 ft., \$2.75; 25 ft., \$5.15; 50 ft., \$8.95; 75 ft., \$13.25.



Elastron Clothes Line

Made by the makers of the famous supplex hose. 100 ft., \$1.95.



Lawn Hose

We have a good assortment of Lawn Hose in many grades and popular prices. See our stock before you buy.

Plastic Hose

	25 ft.	50 ft.
Koroseal (Goodrich) (75 ft., \$13.85).....	\$5.75	\$ 9.80
Plasti-Cord (Gates).....	6.45	11.90
Gardenette (Gates).....	7.00	13.25
Full-Flo Modernette.....	7.25	13.50

Rubber Hose

	25 ft.	50 ft.
Shower, 5/8 in.....	\$4.20	\$ 7.69
Full-Flo, 5/8 in.....	5.56	10.37
Full-Flo, 3/4 in.....	7.41	13.92
Stream Flex, 5/8 in.....	6.79	12.92
Stream Flex, 3/4 in.....	8.23	15.72

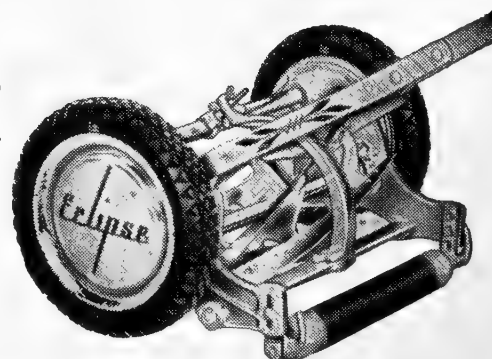
Gates Hose

	50 ft.
35-B Heavy Duty, 3/4 in.....	\$18.45
35-B Heavy Duty, 1 in.....	24.86

Lawn Mowers

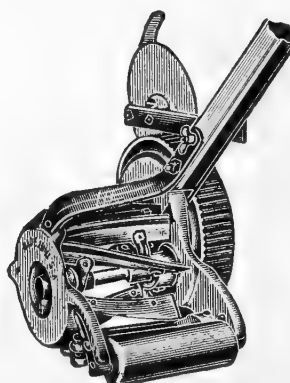
Fine mowers to add to your lawn cutting enjoyment. Supply very limited this year.

Eclipse, 16 in., 5 blade	\$35.50
Eclipse, 18 in., 5 blade	\$37.00



Lawn Edger and Trimmer

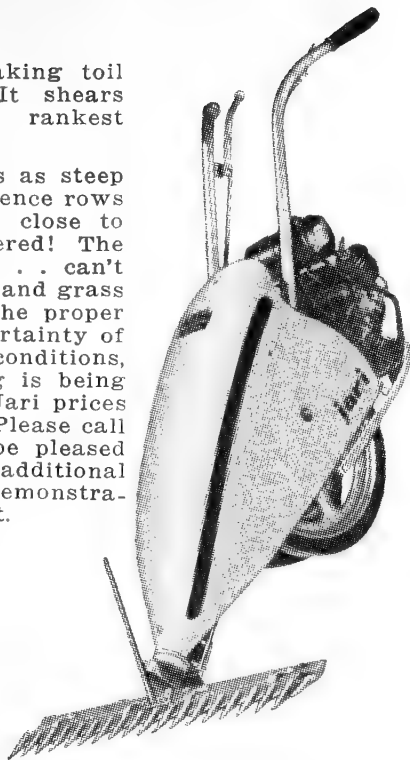
Is really like one-half of small Lawn Mower, with edging device attached. Allows you to trim all edges close to buildings, trees, etc., quick and clean. Takes the place of grass shears without any stooping. Reel has 4 blades and is 8 inches wide. Price, \$19.50.



Jari Power Scythe Cuts 'em Down!

Jari takes the backbreaking toil out of weed-cutting. It shears through the toughest, rankest growths.

Jari hauls itself up hills as steep as 40° . . . along rough fence rows and ditches. It gets in close to trees. And is it engineered! The knife can't tear grass . . . can't get choked up . . . weeds and grass feed into it at exactly the proper rate. Owing to the uncertainty of prices due to present conditions, at the time this catalog is being printed in January, no Jari prices are given in this book. Please call or write and we shall be pleased to quote you or give additional information if wanted. Demonstration arranged on request.



Jacobsen- Worthington Power Mowers

In addition to Lawn Queen Lawn Mower listed below, we have ten other Jacobsen-Worthington models to suit every need, from 18 inch to 62 inch cutting width. Free descriptive folder sent on request.

Lawn Queen

America's quality-built favorite both as a residential and commercial mower. The Lawn Queen does a precision-smooth cutting job—and it's easy to operate and maintain.

ENGINE — Jacobsen built engine, 1½ hp.
CLUTCH—Single plate, asbestos lined, adjustable disc type.
CUTTING HEIGHT — Low, 5/8 in.; high, 2 in.



21-INCH
CUTTING
WIDTH

Jari Jr. Rotary Snow Plow

A history-making "first" The Jari Jr. gives you a light, powerful, SELF-PROPELLED ROTARY SNOW PLOW . . . for home owners, farmers, filling stations, churches and schools.

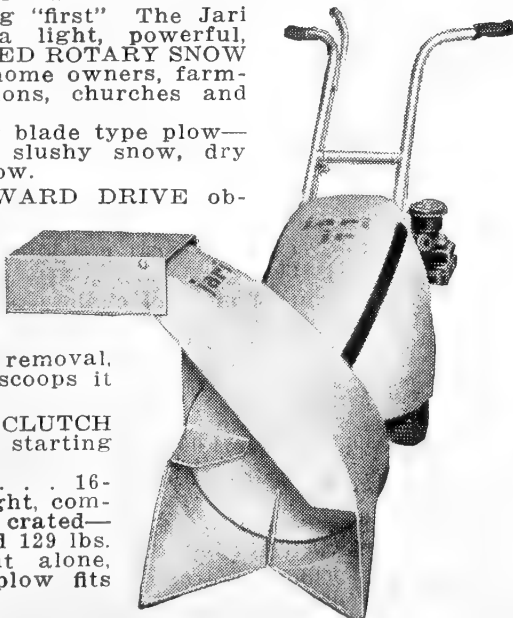
Outperforms any blade type plow—handles wet or slushy snow, dry snow, packed snow.

POSITIVE FORWARD DRIVE obtained by hardened steel pinions engaging notches in rubber tires.

ROTARY RAKE chews snow for easy removal, and open front scoops it in for pick-up.

INDEPENDENT CLUTCH makes winter starting easy.

1½ hp. engine . . . 16-inch swath. Weight, complete machine, crated—157 lbs.; uncrated 129 lbs. Snow attachment alone, 39 lbs. (Snow plow fits Jari, Jr. only.)



The New Improved Springfield Lawn Sweeper

The Springfield Lawn Sweeper gently lifts and collects paper, leaves, sticks, stones, and fresh cut or dead grass without harm to the growing grass. It lifts low-growing crab grass and other spreading weeds, so the lawn mower can cut off the seed pods before they ripen.

Removes quantities of foul weed seeds that would otherwise germinate in your lawn.



Parker Springfield, 28 in. Sweeper.....	\$53.80
Parker Yardgroom, 24 in. Sweeper.....	43.00
Parkerette, 20 in. Sweeper.....	33.50
Parkerette, 28 in. Sweeper.....	41.00
Home Master, 36 in. Power Basket.....	165.00

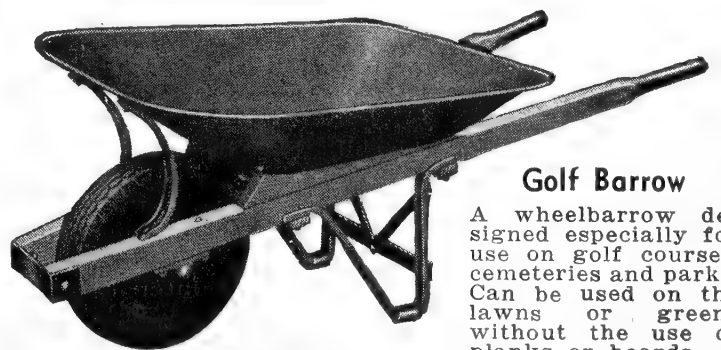
Due to present conditions, all Springfield Sweeper prices are subject to change without notice.

Turf Maintenance Equipment and Supplies Information and Prices on Request

Jacobsen-Worthington Power Equipment
Locke Power Lawn Mowers and Power Equipment
Maxim High-Powered Snow Plows
Jari scythes and snow plows
Gang Mowers and Tractors—for large area mowing—fairway, roughs, airfield and pasture mowing
Simplicity Garden Tractors and Attachments
Onan Portable Generators
Stanley Grass Shears
Skilsaw and Sunbeam Electric Hedge Trimmers
West Point Aerifier (Lawn Cultivator)
Lindig Soil Shredder
Springfield Sweeper-Hand, Power and Trailer Models
Standard Line of Golf Course Supplies
Lewis Ball Washers and Parts
Dettra Golf and House Flags—Henry Ball Washers
Economy—California Type—Traveling and Walking Sprinklers
Skinner Irrigation and Sprinkler Systems
Cali-Clor, Crag, P. M. A. S. and Other Chemicals
Grass Seeds of All Kinds
Gates Rubber and Plastic Water Hose

Standard Manufacturing Co. Products

These Golf Course accessories are fine enough for any Club yet the reasonable prices permit them being used by even the smaller Clubs. Every item of this "Standard" line brings you the latest design, quality material and expert workmanship. Their use is what every Club needs to lower upkeep expense and to make playing more pleasant.



Golf Barrow

A wheelbarrow designed especially for use on golf courses, cemeteries and parks. Can be used on the lawns or greens without the use of planks or boards.

With ball-bearing pneumatic tired wheel.....\$34.30

Several other types of wheelbarrows priced from \$9.50 and up.

POULTRY FEED AND SUPPLIES

All prices printed in this book are subject to change without notice. Due to constant changing of feed prices, please write, phone or call and we will give you the current market prices.

CHARCOAL. Is one of the greatest disease preventatives for poultry. It aids in digestion, purifies the blood and regulates the bowels. Fowls, young and old, should have access to it at all times. In three sizes—fine, medium or coarse. 25 lbs., \$1.50; 50 lbs., \$2.50; 100 lbs., \$4.50.

OYSTER SHELL. Contains lime, of the same composition as eggshell. As other feeds contain very little of this mineral matter, the hens need Oyster Shell at all times to produce eggs. 25 lbs., 50c; 50 lbs., 90c; 80 lbs., \$1.45.

GRANITE GRIT. Is a necessary aid in digestion for both small and large birds. Keep before the fowls at all times. Two sizes—fine and coarse. 25 lbs., 50c; 50 lbs., 75c; 80 lbs., \$1.15.

FOUST'S PIGEON HEALTH GRIT. Gives health, vim and vigor to both young and old birds. Raisers have found it unequaled as a tonic and for fattening squabs. 25 lbs., \$1.25; 50 lbs., \$2.25; 100 lbs., \$4.25.

DRIED BUTTERMILK. Is pure fresh buttermilk with water only removed and nothing else added. Please ask for prices.

Purina and Sterling Feeds

Chick Starters	Turkey Starters	Mink Feed
Chick Growing	Turkey Growing	Rabbit Feeds
Broiler Mash	Turkey Fattener	Horse Feed
Egg Mash	Fox Feeds	Cow or Pig Feeds
Hen Scratch	Goat Feeds	Calf Starting
Chinchilla Feeds		

Prices quoted on request

KA-PONS. Contains synthetic hormone for chemical caponizing. Turkeys and chickens fatten faster, more tender, grow faster. Males stop fighting and finish better. 100 tablets, \$3.00; SINGLE INJECTOR, for injecting Ka-Pon tablets, \$3.00; REPEATOR INJECTOR, \$5.00.

FRANTZ MAGIC ANIMAL-POULTRY YEAST CULTURE. Gives the vim to the chicks to grow and hens to lay. Assists the birds in digesting their food. 4 lbs., \$1.25.

COD LIVER OIL. Genuine high potency Cod Liver Oil. (400D, 1,000A.) 1 qt., \$1.50; ½ gal., \$2.50; 1 gal., \$4.75; 30-gal. drum at \$4.00 a gallon.

FISH OIL. A high grade of oil for poultry and stock only. 1 qt., 75c; ½ gal., \$1.25; 1 gal., \$2.25. Prices in your own container or in a 30-gallon barrel, quoted on request.

WHEAT GERM OIL. A vitamin food which can be fed to all animals, also to humans. 1 oz., 50c; 4 ozs., \$1.25; 1 pint, \$3.50.

PULVEX. Is a non-poisonous powder to use on any animal, including canaries; particularly dogs, cats, foxes, poultry and large animals to control lice, fleas, ticks and mites. Prices: 1 1/5 oz. size, 25c; 3 3/5 oz., 60c; 12 oz., \$1.25.

MASTITIS OINTMENT. Contains Penicillin Dihydrostreptomycin with Sulfonamides for treating bovine mastitis. Tube, 75c.

AVICOL. Checks Chick Losses. It stops disease and prevents its spread and chick infection. Price, 50c; large size, \$1.00.

GROUP-OVER. A Soothing Antiseptic. Roup is one of the most serious of poultry diseases. Keep Group-Over on hand and at the first symptoms of a cold in your flock, give it to every affected bird. Brings relief with magic quickness. 3 oz., 50c; 8 oz. size, \$1.00.

WALKO TABLETS. A wonder-working treatment and prevention of White Diarrhea, Roup and Cholera. 100 tablet size, 60c; 235 size, \$1.20; 1,000 size, \$2.50; 2,000 size, \$4.00.

DON SUNG—MAKES HENS LAY. A Mineral Compound that tones up her egg-laying organs, and makes her stronger and more productive. Prices: 2 ¼ oz., 50c; 7 oz., \$1.00; 3 lbs., \$5.00.

VOLCANIC ASH. For chinchillas. 5 lbs., 75c; 10 lbs., \$1.25.

ISOTOX DAIRY SPRAY. Contains Lindane. Kills flies, mosquitoes, etc., in dairy barns. POWDER, 1 lb., \$4.10; 4 lbs., \$16.00. LIQUID, 1 gal., \$24.00.

CARBOLA WITH LINDANE. Is a white paint and powerful disinfectant combined in powder form. Ready to use when mixed with water. Easily and quickly applied with brush or spray pump. Disinfects and dries white. Does not flake or peel. 1 lb. covers 100 sq. feet. The dry powder is an excellent louse powder. 1 lb., 30c; 5 lbs., 85c; 10 lbs., \$1.37; 25 lbs., \$3.20; 50 lbs., \$5.63.

DR. HESS POULTRY and ANIMAL REMEDIES

Stock Tonic. For horses, cattle, sheep and hogs. 2 lbs., 50c; 5 lbs., \$1.10; 10 lbs., \$1.90; 35 lbs., \$5.25; 100 lbs., \$13.00.

Hog Special. Supplies minerals and keeps hogs' internal organs in full function. 2 lbs., 50c; 5 lbs., \$1.10; 10 lbs., \$1.90; 35 lbs., \$5.25; 100 lbs., \$13.00.

Poultry Pan-a-Min. A tonic-conditioner for poultry. Supplies minerals apt to be lacking in feeds. Helps shorten the moulting period. 1 ½ lbs., 40c; 3 lbs., 75c; 5 lbs., \$1.10; 10 lbs., \$1.90; 35 lbs., \$5.25; 100 lbs., \$13.00.

Enriched Pan-A-Min. contains Antibiotic and B12 supplements, riboflavin, 10 lbs., \$2.15

Dip and Disinfectant. Kills sheep ticks, hog lice, poultry mites and other skin parasites of livestock. Disinfects foul odors. 12 oz., 60c; 1 qt., \$1.10; 1 gal., \$2.85.

Hess Spray. Protects cows from fly torture while milking. Will not taint milk. 1 gal., \$1.65; 2 gal., \$3.00.

Powdered Louse Killer. Now contains DDT. Kills lice on livestock and poultry, ticks on sheep and fleas on dogs. 1 lb., 60c; 2 ½ lbs., \$1.25; 7 ½ lbs., \$3.00.

P. T. Z. Made of phenothiazine, the most effective drug known to remove certain worms from sheep, hogs, cattle and goats. 50 pellets, \$2.00; 100 pellets, \$4.00.

Nicozine. For large round and ceceal worms in poultry. Give in feed. Will not interfere with egg production. 50-bird size, 55c; 100-bird size, \$1.00; 250-bird size, \$2.25.

N. F. Z. For prevention and control of bloody coccidiosis and pullorum. 4 oz., 60c; 1 lb., \$1.50; 5 lbs., \$6.00.

Coryza. For prevention and treatment of the common cold in poultry. 50 tablets, \$3.45; 100 tablets, \$6.25

Chick Tablets. A bowel astringent to treat diarrhea in baby chicks or adult birds. 25c, 50c and \$1.00.

Dr. Hess Poultry Inhalant. Helpful in treating bronchial irritations. 4 oz., 65c; 8 oz., \$1.10.

Six. Six is a new Dr. Hess product for control of poultry lice and mites. ½ pt., 75c; 1 pt., \$1.25; 1 qt., \$2.00.

Dr. Hess Udder Ointment. For caked, swollen or injured udders, cracked or chapped teats. 8-oz. can, 75c.

LEE'S POULTRY AND ANIMAL REMEDIES

Acidox. To aid in the prevention and treatment of coccidiosis. 4 oz., 50c; 12 oz., \$1.00; 32-oz., \$2.00.

Blitspray. A liquid spray for lice on poultry or lice on stock. 1 pt., 75c; 1 qt., \$1.25.

Lee's Creosote Dip. Exceptionally powerful as a disinfectant and germicide. 1 qt., 75c; 1 gal., \$2.25.

Lee's Germozone. One of the very best remedies for poultry affected with colds, cholera, roup, bowel trouble, sour crop, sore head, etc., 4-oz., 50c; 12-oz., 90c; 32-oz., \$1.75; ½ gal., \$3.00; 1 gal., \$5.25.

Lee's Gizzard Capsule. For Worms in Poultry. Prices: Adult size: 50 capsules, 85c; 100 capsules, \$1.40. Pullet size: 50 capsules, 60c; 100 capsules, \$1.10. The chick size 50 capsules, 45c; 100 capsules, 85c.

Lee's Louse Powder. For small flock it is convenient, economical and sure. 1 lb., 35c; 2 ½ lbs., 70c.

Leemulsion. For treating colds, wheezing or bronchitis. 4 oz., 60c; 12 oz., \$1.25; 32 oz., \$2.50.

Mite Killer. Easy to spray, penetrates and kills fast. 1 qt., 80c; ½ gal., \$1.20; 1 gal., \$2.00.

Lee's Pickpaste. Will break the bad habit of chicks picking one another's toes, etc. 2 oz., 25c; 6 oz., 60c.

Sulfamerazine. For combatting pullorum in chicks, coccidiosis and fowl cholera. 4 oz., \$1.25; 12 oz., \$3.00; 32 oz., \$7.50.

Tonax. A tonic and conditioner for chickens and turkeys. 12 oz., 40c; 2 lbs., \$1.00; 6 lbs., \$2.65.

Lee's Vapo-Spray. For the relief of coughs due to colds and minor bronchial irritations in poultry and swine. 1 pt., 60c; 1 qt., 90c; ½ gal., \$1.50; 1 gal., \$2.50.

Lederle Poultry Remedies

Duatok. For colds or roup in poultry. 4 oz., \$2.35; 1 lb., \$8.75.

Sulfaguanidine. Control ceceal coccidiosis in poultry. 4 oz., \$3.10; 1 lb., \$11.00.

Sulmet. For control of fowl cholera and pullorum disease and ceceal coccidiosis. Powder: 4 oz., \$6.50; Solution: 4 oz., \$1.25; 16 oz., \$4.00; Oblets: 24, \$3.55.

Purina Remedies

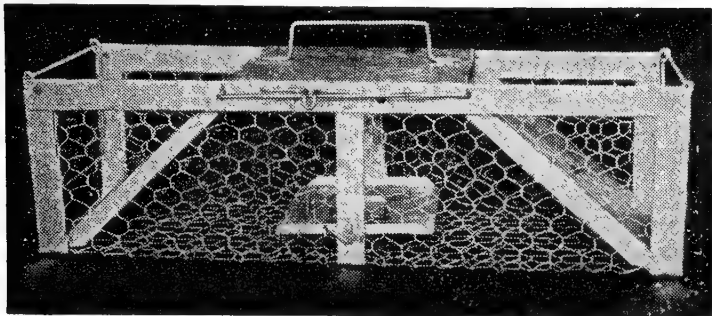
Chek-r-Tab. Drinking water tablets for chickens and turkeys. 60, 60c; 150, \$1.00; 600, \$3.00.

Chek-r-Fect. A disinfectant and germicide. Pt., 75c; gal., \$4.25.

Fly Spray. For dairy: qt., 75c; gal., \$2.40; 5 gal., \$10.35. For home: pt., 40c; qt., 75c; gal., \$2.80.

Chek-r-Ton. Flock treatment for large roundworms in chickens and poultry. 3 lbs., \$1.45; 6 lbs., \$2.75.

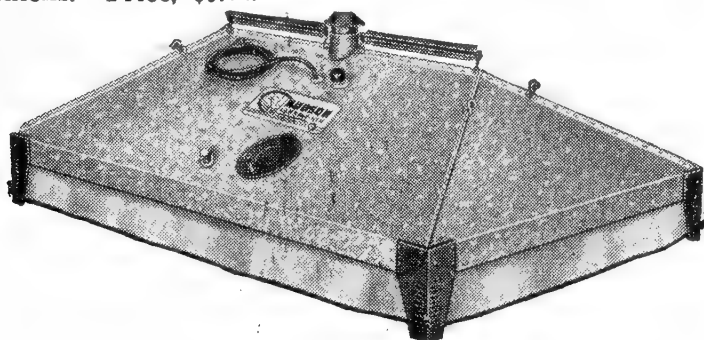
Havahart Humane Animal Traps



- No. 1 for weasels, rats, chipmunks.....\$3.50
 No. 2 for muskrats, mink, rabbits, squirrels..... 4.50
 No. 3 for woodchucks, raccoons, opossums, cats....10.50
 No. 6 special mink trap.....10.80
 No. 7 special fox trap.....20.00

Brooders

Econo Senior Chick Brooder. An electric Chick Brooder, 46x46 with automatic thermostat control. Capacity, 300 chicks. Price, \$9.75.



- No. 70. **Lektrik-Hen Battery Brooder.** 150 watt. Enclosed radiant heater, automatic thermostat. 125 day old chick size, 864 square inch floor space. Price, \$27.60
 No. 2432. **Lektrik-Hen.** 24x32 in., 300 watt element, completely automatic. 100 chick capacity. Price, \$16.80
 No. 1248. **Mother-Hen Oil Burner.** Has 48 in. hover, with fuel saving, accurate temperature control. 375 chick capacity. Price, \$25.80

Wood Preservative

USOL, MITE KILL AND WOOD PRESERVER. Kills and stops chicken mites or ticks in poultry houses for a whole year. Disinfects deep cracks and crevices, where vermin and disease germs propagate. One gallon covers 100 to 200 square feet. Preserves wood against rot. 1 gal., \$1.75.

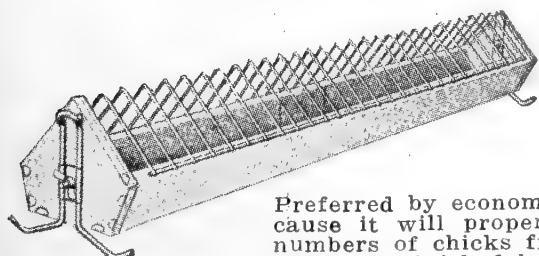
Preserves wood against rot, termites, etc.
Timber Tox, per gallon.....\$4.75
Pentadine, per gallon..... 4.50

Poultry Litter

Sani-Flor Poultry Litter is 100% mineral substance and fireproof. Cannot harm chicks if they eat it. Will not get moldy or decay. Is vermin-proof. Keeps chicks warm and dry. Absorbs chick droppings and dries out quickly. **Use Sani-Pan for chicks; Sani-Flor for hens.** 1 bag (about 25 lbs.), \$1.95; 10 lbs., \$1.00.

Imported Poultry Peat. One bale covers 350 square feet, one inch deep. 1 bale (about 140 lbs.), \$5.25; small bale, \$4.25.

Chick-Bed. This silica poultry litter is ideal for baby chicks and laying hens. Saves labor, reduces chick losses. Brooder size, about 2 bu. bag, \$2.90; nest size, \$1.50 for about one bu. bag.



Broiler and Poult Feeder

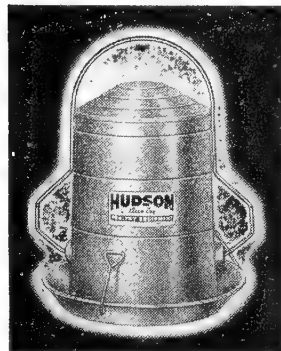
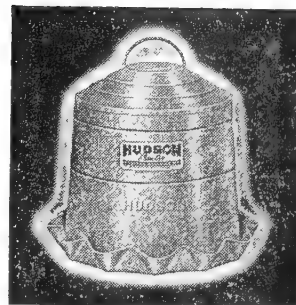
Preferred by economical buyers because it will properly serve large numbers of chicks from two weeks of age to finished broilers.

No. 730—30-inch..... \$2.00 No. 748—48-inch.... \$2.60

Chick Fountains

Popular priced fountain in two sizes. Invert to fill, cupped pan snaps on securely. May be carried without spilling or over-running. Ribbed cone top prevents roosting.

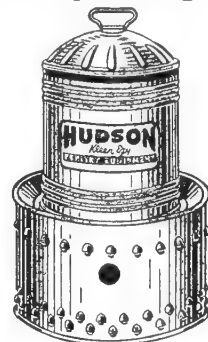
No. A4—1 gal. Each.....\$1.20
 No. A8—2 gals. Each..... 1.60



Handy-Fill Chick Fountain

Handy-Fill chick fountain with exceptional water capacity at an attractive price. Reversible bail for easy filling and cleaning. Drinking pan of special Hudson design. One-piece, rolled edge trough especially designed for small chicks, of no-spill design.

No. C3—3 gal. Each\$2.20
 No. C5—5 gal. Each\$3.00



Broiler and Flock Fountain

A long lasting double wall type, top-fill fountain. Saucer shape pan provides all needed drinking space at water surface, yet chickens cannot stand in it. Has anti-roost top.

No. K5H—5-gal. size. Complete with heater (as shown in cut).....\$7.50

Chick and Broiler Fountain

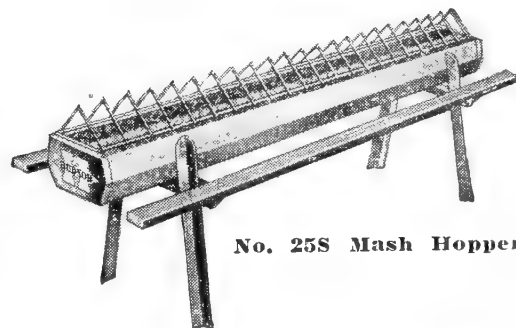
A fountain that is easily cleaned, cone top preventing roosting. Equipped with self-closing valve. New design of "wade-proof" trough prevents waste and moisture accumulation.

K-5—5 gal. As shown above without heater.....\$4.40

Purina Mash Hopper. Rat-proof, very special at.... 2.80

Poultry Feeders

No. 6360—3 ft. Chick Feeder...\$1.20
 No. 748—4 ft. Broiler Feeder...\$2.60
 No. 25S—5 ft. Mash Hopper...\$6.90



No. 25S Mash Hopper

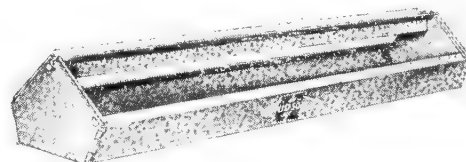
Glass Jar and Galv. Iron Chick Fountain Base

For water, milk, medicine or buttermilk. Enameled or charcoal tin. Fits standard pint, quart, or two-quart Mason jars. Without jar, 18c each; 2 for 35c.

Glass base fountain made of heavy clear glass moulded with smooth edge. Without jar, 18c each; 2 for 35c.



Chick Feeder (Reel Type)



Improved feeder. Reel adjustable to four positions. Practical for day-old to six-weeks-old chicks.

No. 624—24-inch 55c
 No. 636—36-inch 85c
 No. 6360—36-inch, same as No. 636, excepting furnished with adjustable wire legs \$1.20

Spiral Leg Bands

Size	Doz.	25	100	1000
Chick, Pigeon, Bantam.....	\$0.10	\$0.15	\$0.50	\$ 4.00
Mediterranean, American.....	.10	.20	.60	4.50
No. 12 Asiatic.....	.15	.25	.70	5.50
No. 13 Asiatic.....	.15	.25	.85	6.50
No. 14 Turkey.....	.20	.35	1.00	7.50
No. 16 Turkey.....	.25	.45	1.40	10.00

Economy Colored Poultry and Pigeon Band Numbered

The Best Band for Exhibition Purposes

Colors: Red, Blue, Pink, White, Yellow, Green, Purple. Sizes 4 and 5 for Pigeons; 5, 10c; 10, 20c; 25, 40c; 50, 65c; 100, \$1.25. Size 9 for Mediterranean; size 11 for American breeds; sizes 12 and 13 for Asiatic; sizes 14 and 16 for Turkeys; 5, 15c; 10, 25c; 25, 60c; 50, \$1.10; 100, \$2.00.

Window Material (Glass Substitutes)

A high grade, low priced substitute for glass for poultry houses, hog houses, cold frames, storm doors, windows, porches, garages, etc. Practically unbreakable. Permits ultra-violet rays to filter through. Holds in heat—keeps out cold.

Flex-O-Glass, per square yard.....	\$0.57
Glass-O-Net, per square yard.....	.66
Plastic Glass, per square yard.....	.84
Wyr-O-Glass, per square yard.....	.96
Screen Glass, per square yard.....	1.44

3x4 Egg Cartons (Eagle)

A square shaped, two-piece egg carton.

1 doz...\$0.30	100 ...\$2.00	500 ...\$ 7.25
2 doz... .60	250 ... 3.75	1,000 .. 14.00

Carry-Safe Egg Cartons

A one-piece cushioned carton, size 3x4 that saves egg breakage and labor.

1 doz.....\$0.35	100 .....\$2.25	500\$ 9.00
2 doz..... .65	250 4.75	1,000 17.50

2x6 Deluxe Double Fold Egg Cartons

1 doz.....\$0.40	100 .....\$2.75	500 .....\$12.50
2 doz..... .75	250 6.50	1,000 24.00

B-K (Bacili-Kil)

Bacili-Kil or commonly called B-K is one of the most powerful germicides and disinfectants, being even more effective than pure carbolic acid and still non-poisonous. We do not hesitate to recommend it for general use in the home, poultry house or barns. Trial size, 30c; 10 oz. size, 50c; 1 qt., 90c; 1 gal., \$2.00; 5 gals., \$8.50. Powder: 9½ oz. bottle, 85c; 1½ lb. bottle, \$1.70.

"Black Leaf 40" for Poultry Lice

"Black Leaf 40" painted on the top side of the roosts controls body lice. Saves the labor of handling each bird either to dust, dip or grease. "Black Leaf 40" does not harm the birds nor retard egg production. Prices: 1-oz. bottle (treats 60 running feet of roost), 35c; 5-oz. bottle, \$1.05; 1 lb., \$2.50; 2-lb. tin, \$4.15; 5 lbs., \$7.40; 10-lb. tin, \$12.65.

Thermostat Wafers



Wafers to fit any incubator or brooder. State make when ordering.

Size, 3 inch.	Each, 35c; 40c postpaid.
Size, 4 inch.	Each, 45c; 50c postpaid.

Opal Glass Nest Eggs

The exact size of real hen's egg. Doz., 60c. By parcel post, 80c.

Tobacco Products

Powder Golf Leaf. 2 lbs., 30c; 10 lbs., \$1.05; 100 lbs., \$5.80. **Clippings.** 1 lb., 20c; 3 lbs., 50c; 5 lbs., 75c; 10 lbs., \$1.25; 25 lbs., \$2.50; 50 lbs., \$4.00; 100 lbs., \$7.50.

Epsom Salts

For poultry. Give to mature birds the first thing in the morning before feeding at the rate of ½ lb. salts to 2 gal. of water, for 100 birds. Use ½ as much salts to same amount of water for pullets. 1 lb., 12c; 5 lbs., 35c.

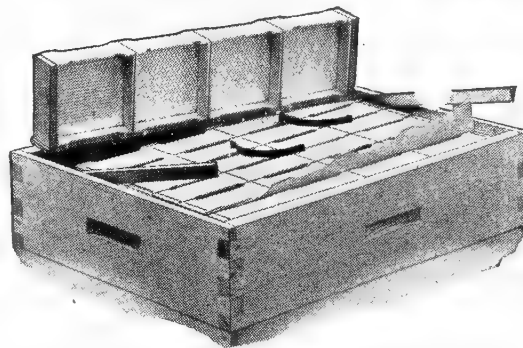
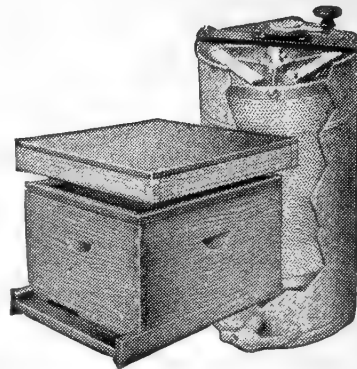
Thermometers

Brooder, each...50c to 85c	Greenhouse, each.55c to \$1.25
Incubator, each.....50c	House, each.....35c to 1.25

ROOT QUALITY BEE SUPPLIES

EVERYTHING FOR THE BEEKEEPER

Please write or call for Root 1952 Bee Supply catalog, which lists a complete line of Bee supplies and prices. We shall endeavor to fill your order promptly, but order early.



Due to present conditions all prices in this book are subject to change without notice. All prices on Bee Supplies are F.O.B. Medina, Ohio. Add postage on mail orders, at 5th Zone Rate to St. Paul.

Salt

Water Softener. A Kleer. 100-lb. bag.....	\$1.95
Diamond M.....	2.90
CC-Rock, Ice Cream, Sidewalk. 100-lb. bag.....	1.95
FC-Coarse, Stock or Hay. 100 lbs.....	1.75
White Cattle, 50-lb. block, each.....	.85
Iodized. 50-lb. block, each.....	1.25
Sulphurized. 50-lb. block, each.....	1.10

Morton's Smoke Salt

Does the entire job of salting, sugar-curing and putting the appetizing flavor of wood smoke into your hams and bacon. 2 lbs., 50c; 7½ lbs., \$1.10.

Morton's Tender-Quick

A special meat cure for beef, veal, mutton, lamb, fish, fowl, pork specials, wild game, etc. Cures faster—improves flavor—makes meat more tender, 4 lbs., \$1.10.

Morton's Seasoning

That extra something that makes good cooking taste better. 10 oz., \$0.45

Morton's Meat Pump..... 2.00



EGG PRESERVATIVES

Hammond's Water Glass. At a very small cost, you can have eggs in winter that are for all purposes fresh, at the low springtime prices. Pt. size, 40c (preserves 10 doz. eggs); qt. size, 60c (preserves 20 doz. eggs); 1 gal. \$1.70.

"Jiffy-Way" Egg Grading Scale

Four-color zone dial doubles grading speed. You see instantly the correct weight and grade. Each, \$1.85.

The New "Jiffy-Way" Candler

This candler is attractive, durable, and economical in operation. Each, \$2.20.

"Jiffy-Way" Combination Egg Scale and Candler

Price, \$7.15.

Sav A Day Bleach and Disinfectant

A powerful sodium hypochlorite germicide, disinfectant and deodorizer for home use, dairy and cream sterilization, taverns, soda fountains, restaurants, etc. Destroys fish and other odors; for cleaning and deodorizing garbage cans and toilets and a hundred other uses. Sav A Day is invaluable. 1 gal., 43c.



Hamster

Hendryx Hamster Cage

Expressly designed for hamsters, wires closely spaced to prevent escape, also has exercise wheel and play platform. Complete with holder and gravity feed water bottle.. \$6.00

Hamster Food. A complete food, high in protein value with added vitamins to give your pet a bright shiny coat of fur. Price, 1 lb..... 35c

RABBIT SUPPLIES

Also Rabbit Feeds at Market Prices.

Rabbit Salt Spools. Plain, sulphurized or mineralized. Each 6c; doz., 60c; postpaid, 85c; 100, \$5.00.

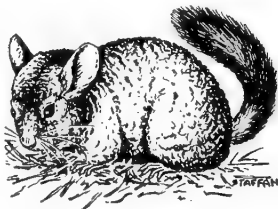
Rabbit Feeders (stoneware) 5½ in. Each 50c; dozen, \$5.00.

Rabbit Feeders (stoneware) 7½ in. Each, 60c; dozen, \$6.00.

Waterers (stoneware) 6½ in. Each, 60c; dozen, \$6.00.

100% Wheat Germ, 1 lb., 60c; 5 lbs., \$2.50.

Volcanic Ash. For chinchillas. 5 lbs., 75c; 10 lbs., \$1.25; 25 lbs., \$2.35; 50 lbs., \$4.20; 100 lbs., \$8.25.



Chinchilla

SERGEANT'S DOG MEDICINES

We carry a complete line of these famous remedies.

CEDAR SHAVINGS. For dogs and pets. 1 bu. bag, \$1.25.

Wheat Germ

For Health—Eat fresh Wheat Germ. One of Nature's most vital health foods. Contains Vitamin B-1 (Thiamin), Vitamin G (Riboflavin), Vitamin E and Vitamin A. A tablespoonful is a day's average dose. Eat fresh Wheat Germ for Health. 100% Wheat Germ, 1 lb., 60c; 5 lbs., \$2.50. (Add postage on mail orders)

Wheat Germ Oil. A vitamin food which can be fed to all animals, also to humans. 1 oz., 50c, 4 ozs., \$1.25; 1 pint, \$3.50.

Pulvex

Pulvex is a non-poisonous powder to use on any animal, including canaries; particularly dogs, cats, foxes, poultry and large animals to control lice, fleas, ticks and mites. Prices: 1 1/5 oz. size, 25c; 3 3/5 oz., 50c; 12 oz., \$1.25.

Don't Blame Fleas—Use **Dr. MERRICK'S SULFADENE**

When dogs itch—scratch continually, it's usually not due to fleas, mange, diet. 2 to 1 it's FUNG-ITCH—grass-borne fungus infection. SULFADENE—applied externally, stops itching in minutes. Clears up scales and sores in a few days. Price, 98c.

Fleischmann's Irradiated Dry Yeast

Helps to keep your dog in wonderful condition, to eliminate skin trouble and intestinal disorders and to give your dog a finer, glossier coat. Just add a teaspoonful to his daily diet. 3½ oz., 30c; 8-oz. can, 60c; 1 lb., \$1.00.

One-Spot Flea Killer

Kills lice, ants, fleas, aphids, bedbugs, crab lice, potato bugs, bean beetles. For fleas, dust on one spot. Price 35c.

Cupid Chaser

A remedy to keep dogs away from females during the mating season. Price, \$1.00.

Chaperone (Powder)

Makes your dog behave in the house. Keeps dog off rugs and furniture if desired. Price, 50c and \$1.00.

Dog Check

Effective for breaking dogs and cats of their undesirable habits. Simply spray Dog Check to keep animals away. Sprayer with each package. 3-oz., 60c; 8-oz. size, \$1.00.

BIRD SEED



In the quality and kind of seed you give your bird depends its health and song, and it is of the greatest importance to get good seed. More birds lose their song from the wrong kind of food or poor seed than from any other cause. Buy good seed and you will continue to have a happy singing bird. The seed we

offer is carefully selected and of the highest quality. We shall be pleased to quote you in larger amounts than those we have listed. Please add postage to mail orders.

Bird Seed

	1 lb.	5 lbs.	10 lbs.
Canary Bird Mixture.....	\$0.25	\$1.20	\$2.40
Love Bird Mixture .....	.25	1.20	2.40
Canary Seed, only.....	.35	1.50	2.75
Hemp .....	.50	2.25	3.75
Millet .....	.20	.60	1.00
Rape, small red.....	.40	1.75	3.00
Sunflower, large parrot .....	.50	2.00	3.50
Lettuce Seed .....	.75	...	...
Thistle Seed .....	.65	2.50	4.50
Poppy Seed, white .....	.50	2.25	4.00
Bird Gravel (bulk) .....	.05	.25	.40
Cuttle Bone (small size) .....	.....oz.,	25c	

We also have canary feed, drinking and treat cups, bird baths, and canary leg bands. Bird books on page 33.

Bird Remedies and Feeds—Fish Food

Bird Bitters	15c	Mite Powder	25c
Bird Nesting	10c	Moulting Food..	20c and 35c
3V Song Food..	20c, 35c, \$1.00	Bird Salve	15c
Nestling Food..	15c and 40c	Fish Food.....	10c & 50c
Catnip	15c	Aquarium Cement.....	50c
Lice Powder	15c		

OUTSTANDING DOG FOODS



PURINA DOG CHOW is a complete food made of dried meat, dried milk, wheat germ, barley malt, cod-liver oil and other health building ingredients. Dogs love it. It's good for them. To suit your dog's taste Dog Chow comes in two forms, meal or checkers. Feed either one or both for variety.

GAINES. A popular dog feed throughout United States and Canada. Comes in two sizes, Krunchons or Meal.

FRISKIES. Contains 19 essential ingredients to make it to the dog's taste. In two sizes, cubes or meal.

NUTRENA DOG FOOD. Stepped-up with special livium vitamins for dogs. Meal or nuggets.

RED HEART DOG & CAT FOOD. Ready mixed balanced food. A, can has beef, B, Fish, C, Cheese. 1 lb. can, 20c.

MILK BONE—A food for dogs and cats. **Tiny Bits**, 10½ oz. 18c; 30 oz. 45c; **Small size Biscuit**, 10 oz., 18c; 22 oz., 45c; **Medium size**, 10 oz., 18c; 26 oz., 50c; **Large size**, 10½ oz. 25c; 29 oz., 50c.

DOG YUMMIES. A vitamin dog candy, contains no sugar. 8 oz. 25c; 1 lb., 50c.

CHAMPION CAT AND KITTEN FOOD. A complete meal food. 22 oz., 45c.

CHAMPION DOG MEAL. For dogs and puppies. 4 lbs., 63c.

CHAMPION DOG FOOD. Kibbled. 4 lbs., 79c.

Due to constant change of feed market price, we cannot quote prices in this book on above dog feeds not priced. Please call, phone or write for price.



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